



TRANSPORTATION RESEARCH BOARD

MEMORANDUM

TO: TRB Executive Committee

FROM: Victoria F. Sheehan, Executive Director

DATE: January 3, 2024

SUBJECT: Agenda Book - TRB Executive Committee Meeting
January 10 & 11, 2024

Attached is the agenda book for your review prior to our winter TRB Executive Committee meeting on January 10 and 11, 2024. This year we will meet in the Liberty LM Room (Meeting Level 4), Marriott Marquis Hotel, Washington, DC.

All of you are receiving this information electronically. We will make hard copies available at the meeting for those who requested them. Chair Diane Gutierrez-Scaccetti urges all members to review the agenda material prior to the meeting, so that time spent in oral briefings can be reduced to a minimum. This will also expedite the handling of the more routine items on the agenda, allowing more time for discussion of substantive transportation issues. If you have limited time to review the agenda materials ahead of time, I ask that you read the Executive Director's report in Tab 13, and the Critical Issues in Transportation Update in Tab 16. We will not have time to do detailed presentations on either of the items, but there is a lot of important information contained in each tab. You are asked to bring your agenda material with you as only late items or corrected material will be distributed at the meeting (A few extra agendas will be available in case you forget yours).

Please note that the electronic PDF version of the agenda book includes bookmarks. In the left column, please click the "Bookmark" icon to find tabs that will take you directly to each agenda item.

While you are attending the Annual Meeting, please consider attending some technical sessions or committee meetings. The program is especially interesting and full this year. For those of you who are relative newcomers to TRB, attending sessions and committee meetings will give you a better understanding of the day-to-day activities of the Board. We have also included a list of activities related to the Executive Committee immediately following the agenda.

I also encourage you to visit the exhibit hall. We depend on revenues from our patrons and exhibitors, and they appreciate meeting Executive Committee members.

I particularly direct your attention to the following sessions and reception on Wednesday; the Executive Committee Policy Session beginning at 8:45 am, the Chair's Plenary Session beginning at 1:30 pm, and the Executive Director's Reception beginning at 5:00 pm. Breakfast will be available each day in the meeting room beginning at 7:30 am.

I look forward to seeing you and to our having a productive meeting.

Attachments

NATIONAL
ACADEMIES *Sciences
Engineering
Medicine*

AGENDA FOR JANUARY 2024 EXECUTIVE COMMITTEE MEETING

TUESDAY, JANUARY 9, 2024

6:00 p.m. - 8:00 p.m.	Executive Committee Reception, Marriott Marquis, Shaw & LeDroit Park Room
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WEDNESDAY, JANUARY 10, 2024

Item	Time	Page	Speaker	Type
1. Welcome and Announcements a. Cover Memo b. Agenda c. Zoom Instructions d. Policy Statement on Preventing Discrimination, Harassment, and Bullying	8:00 a.m.	1 2 5 7	Gutierrez-Scaccetti	Information
2. Self-Introductions; Bias/Conflict of Interest	8:10 a.m.	8	All	Discussion
3. Recognition of Outgoing Members of the Executive Committee	8:25 a.m.	10	Gutierrez-Scaccetti	Presentation
4. Approval of June 28-29, 2023 Minutes	8:35 a.m.	11	Gutierrez-Scaccetti	Action
5. Introduction to Policy Session on Workforce Challenges a. Maritime Workforce Issues b. Challenges and Solution c. Growing Future Talent d. Real World Application e. Policy Discussion	8:40 a.m. 8:50 a.m. 9:10 a.m. 9:30 a.m. 9:50 a.m. 10:10 a.m.	17	Lewis Admiral Phillips Blair Cronin Ivey Quezada All	Information Presentation Presentation Presentation Discussion
6. Lunch in Marriott Marquis, Shaw & LeDroit Park	12:15 p.m.			
7. Walk to Convention Center	1:10 p.m.			
8. Chair's Plenary Session Convention Center (Ballroom ABC)	1:30 p.m.		Gutierrez-Scaccetti	Information
9. Adjourn	3:00 p.m.			
10. OPTIONAL: New Materials for Infrastructure Reinventing the Roadway, Runway, and Railway Convention Center (Ballroom ABC)	3:45 p.m.		USDOT	Information
11. Executive Director's Reception Marriott Marquis, Shaw & LeDroit Park Room	5:00 p.m.		Sheehan	

THURSDAY, JANUARY 11, 2024

Item	Time	Page	Speaker	Type
12. June 2024 Policy Session	8:30 a.m.	22	Houston	Action
13. a Executive Director's Report b. Financial Report	8:40 a.m.	24 35	Sheehan	Information
14. Technical Activities Update	9:00 a.m.	37	Grimes/Brach	Information
15. TRB Division Committee Report	9:20 a.m.	42	Hendrickson	Information
16. Critical Issues in Transportation Update	9:40 a.m.	50	Shaheen	Discussion
17. USDOT RD&T Strategic Plan Update	9:55 a.m.		Hampshire	Information
18. Decarbonation Blueprint Update	10:05 a.m.		Berube	Information
19. Break	10:15 a.m.			
20. Diversity, Equity, and Inclusion Committee	10:30 a.m.	62	Hall	Information
21. Minority Student Fellows Programs	10:40 a.m.	67	Febey	Information
22. Young Members Council	10:45 a.m.	70	Kontou	Information
23. International Subcommittee	10:55 a.m.	71	Iwasaki	Information
24. Marine Board Update	11:05 a.m.	80	Philip	Information
25. Communications Update	11:15 a.m.	83	Mackie	Information
26. CRP Update	11:30 a.m.	88	Houston	Information
27. Consensus and Advisory Studies Update	11:45 a.m.	95	Menzies	Information
28. Other Business	12:00 p.m.		Gutierrez-Scaccetti	Information
29. Adjourn	12:15 p.m.			

Reference	D. Purposes and Duties of Executive Committee 118
A. Rosters and Staff 101	E. TRB Policy on Executive Committee Participation 121
B. Organization Charts 109	F. Standing Oversight Committees 123
C. Division Descriptions 110	G. Project Approval Processes 126

Next Summer Meeting: Keck Center Building	June 12-13, 2024 or June 19-20, 2024 Location: Washington, DC
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Events for Executive Committee Members

New Attendee Engagement Session – Sunday, January 7, 2:30 PM – 4:00 PM, Washington Convention Center, Ballroom AB

Exhibit Hall Opening Reception – Sunday, January 7, 4:00 PM – 7:00 PM, Washington Convention Center, Exhibit Hall D

Exhibit Hall – The exhibits are scheduled Monday, January 8, 9:00 AM – 4:00 PM, Washington Convention Center, Exhibit Hall D

Thomas B. Deen Distinguished Lecture and Paper Award Presentations – Monday, January 8, 6:00 PM – 7:30 PM, Washington Convention Center, Ballroom A

Exhibit Hall – The exhibits are scheduled Tuesday, January 9, 9:00 AM – 4:00 PM, Washington Convention Center, Exhibit Hall D

Minority Student Fellows Poster Session – Tuesday, January 9, 10:15 AM – 12:00 Noon, Washington Convention Center, Hall A

TRB Division Committee Meeting – Tuesday, January 9, 1:15 PM – 2:45 PM, Marriott Marquis, Tulip Room (Invitations sent to committee members only)

TRB Subcommittee on FHWA and State DOT Funding – Tuesday, January 9, 4:00 PM – 5:00 PM, Marriott Marquis, Tulip Room (Invitation and Zoom link sent to subcommittee members only)

Executive Committee Reception – Tuesday, January 9, 6:00 PM – 8:00 PM, Marriott Marquis, Shaw & LeDroit Park

Exhibit Hall – The exhibits are scheduled Wednesday, January 10, 9:00 AM – 4:00 PM, Washington Convention Center, Exhibit Hall D

TRB Executive Committee Meeting Day 1 – Wednesday, January 10, 8:00 AM – 8:45 AM, Marriott Marquis, Liberty LM

Executive Committee Policy Session – Wednesday, January 10, 8:45 AM – 12:00 Noon, Marriott Marquis, Liberty LM

Executive Committee Lunch – Wednesday, January 10, 12:15 PM – 1:10 PM, Marriott Marquis, Shaw & LeDroit

Chair's Plenary Session – Wednesday, January 10, 1:30 PM – 3:00 PM, Washington Convention Center, Ballroom ABC

Executive Director's Reception – Wednesday, January 10, 5:00 PM – 7:00 PM, Marriott Marquis, Shaw & LeDroit Park

Exhibit Hall – The exhibits are scheduled Thursday, January 11, 9:00 AM – 4:00 PM, Washington Convention Center, Exhibit Hall D

TRB Executive Committee Meeting Day 2 – Thursday, January 11, 8:30 AM – 12:15 Noon, Marriott Marquis, Liberty LM

TRB EXECUTIVE COMMITTEE HYBRID MEETING INSTRUCTIONS

Sierra Reffell is inviting you to a scheduled Zoom meeting.

Topic: TRB Executive Committee Winter Meeting – Day 1

Date/Time: Wednesday, January 10, 2024, 8:00 AM – 12:00 PM

Join from PC, Mac, Linux, iOS or Android:

<https://nasem.zoom.us/j/95646848581?pwd=TIpqRlhDMFdITHB3ZFAzdU4rSke2dz09>

Password: 753239

Or iPhone one-tap :

US: +13017158592,,95646848581# or +16513728299,,95646848581# Or Telephone:

Dial(for higher quality, dial a number based on your current location):

US: +1 301 715 8592 or +1 651 372 8299 or +1 312 626 6799 or +1 470 250 9358 or +1 646 518 9805 or +1 646 558 8656 or +1 669 219 2599 or +1 669 900 6833 or +1 720 928 9299 or +1 971 247 1195 or +1 213 338 8477 or +1 253 215 8782 or +1 602 753 0140 or 888 475 4499 (Toll Free) or 877 853 5257 (Toll Free)

Meeting ID: 956 4684 8581

Password: 753239

International numbers available: <https://nasem.zoom.us/j/95646848581?pwd=TIpqRlhDMFdITHB3ZFAzdU4rSke2dz09>

Would you like to test your Zoom connection? Please click on the link below.

<https://nasem.zoom.us/test>

NOTICE: The Zoom service allows audio and any materials exchanged or viewed during the session to be recorded and shared. Please be aware that by participating in this activity, you consent to your voice, likeness, and any materials you provide, being recorded for use and dissemination, without payment of any compensation for such use, in any language, format, or media now known or later devised, and you release the National Academies of Sciences, Engineering, and Medicine from any and all claims, liability, or damages arising from any such use. The Academies will proceed in reliance upon such consent and release. If you do not consent to the foregoing, please do not join the session.

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http://www.nationalacademies.org/about/NA_186023.html

Topic: TRB Executive Committee Winter Meeting – Day 2

Date/Time: Thursday, January 11, 2024, 8:30 AM – 12:15 PM

Join from PC, Mac, Linux, iOS or Android:

<https://nasem.zoom.us/j/93919290024?pwd=N1p4cDNiWWdOK2ZiRE1Fb1dUY1gyQT09>

Password: 652211

Or iPhone one-tap :

US: +13017158592,,93919290024# or +14702509358,,93919290024# Or Telephone:

Dial(for higher quality, dial a number based on your current location):

US: +1 301 715 8592 or +1 470 250 9358 or +1 646 518 9805 or +1 646 558 8656 or +1 651 372 8299 or +1 312 626 6799 or +1 213 338 8477 or +1 253 215 8782 or +1 602 753 0140 or +1 669 219 2599 or +1 669 900 6833 or +1 720 928 9299 or +1 971 247 1195 or 877 853 5257 (Toll Free) or 888 475 4499 (Toll Free)

Meeting ID: 939 1929 0024

Password: 652211

International numbers available: <https://nasem.zoom.us/j/93919290024>

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Code of Conduct: The National Academies of Sciences, Engineering, and Medicine (NASEM) follows the NASEM guidelines in preventing discrimination, harassment, and bullying of participants at NASEM events, including conferences.

http://www.nationalacademies.org/about/NA_186023.html

Zoom Meeting Best Practices

- Use the “Raise Hand” feature to notify the host or current speaker that you wish to speak or use the chat feature.
- Unmute you microphone before speaking.
- Mute your microphone anytime you are not actively speaking.
- Avoid noisy activities like typing while your microphone is on.
- Focus on the meeting – avoid multitasking when you can.
- Monitor chat for conversation.
- Make sure you can see the Zoom windows at all times, especially if someone is sharing their screen.
- Sit somewhere with a neutral background.
- Make sure you camera is on a steady surface to prevent shaking.
- Turn off your camera if you need to take care of business outside of the meeting. Turn the camera back on when you are present in the meeting again.
- Communicate privately with the meeting host or co-host if you need to step away from the computer. Notify the host or co-host when you return.

PREVENTING DISCRIMINATION, HARASSMENT, AND BULLYING: POLICY FOR PARTICIPANTS IN NASEM ACTIVITIES

The National Academies of Sciences, Engineering, and Medicine (NASEM) are committed to the principles of diversity, inclusion, integrity, civility, and respect in all of our activities. We look to you to be a partner in this commitment by helping us to maintain a professional and cordial environment. **All forms of discrimination, harassment, and bullying are prohibited in any NASEM activity.** This policy applies to all participants in all settings and locations in which NASEM work and activities are conducted, including committee meetings, workshops, conferences, and other work and social functions where employees, volunteers, sponsors, vendors, or guests are present.

Discrimination is prejudicial treatment of individuals or groups of people based on their race, ethnicity, color, national origin, sex, sexual orientation, gender identity, age, religion, disability, veteran status, or any other characteristic protected by applicable laws.

Sexual harassment is unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature that creates an intimidating, hostile, or offensive environment.

Other types of harassment include any verbal or physical conduct directed at individuals or groups of people because of their race, ethnicity, color, national origin, sex, sexual orientation, gender identity, age, religion, disability, veteran status, or any other characteristic protected by applicable laws, that creates an intimidating, hostile, or offensive environment.

Bullying is unwelcome, aggressive behavior involving the use of influence, threat, intimidation, or coercion to dominate others in the professional environment.

REPORTING AND RESOLUTION

Any violation of this policy should be reported. If you experience or witness discrimination, harassment, or bullying, you are encouraged to make your unease or disapproval known to the individual at the time the incident occurs, if you are comfortable doing so. You are also urged to report any incident by:

- Filing a complaint with the Office of Human Resources at 202-334-3400 or hrservicecenter@nas.edu, or
- Reporting the incident to an employee involved in the activity in which the member or volunteer is participating, who will then file a complaint with the Office of Human Resources.

Complaints should be filed as soon as possible after an incident. To ensure the prompt and thorough investigation of the complaint, the complainant should provide as much information as is possible, such as names, dates, locations, and steps taken. The Office of Human Resources will investigate the alleged violation in consultation with the Office of the General Counsel.

If an investigation results in a finding that an individual has committed a violation, NASEM will take the actions necessary to protect those involved in its activities from any future discrimination, harassment, or bullying, including in appropriate circumstances **the removal of an individual from current NASEM activities and a ban on participation in future activities.**

CONFIDENTIALITY

Information contained in a complaint is kept confidential, and information is revealed only on a need-to-know basis. NASEM will not retaliate or tolerate retaliation against anyone who makes a good faith report of discrimination, harassment, or bullying.

Updated December 2, 2021

Conflict of Interest and Bias Definitions

- “Conflict of interest” means any financial or other interest which conflicts with the participation of an individual in particular decisions of the institution because the interest (1) could significantly impair the individual's objectivity or (2) could create an unfair competitive advantage for any person or organization.
- “Bias” ordinarily relates to views stated or positions taken that are largely intellectually motivated or that arise from the close identification or association of an individual with a particular point of view or the positions or perspectives of a particular group.

Conflict of Interest

- Financial in nature;
- For individual and immediate family;
- Includes *current* employment, investment, and property interests and only lasts for the duration of the project;
- Details provided on forms are confidential;
- Financial conflicts are usually disqualifying

Bias

- Perspective -- point of view;
- Expertise -- relevant to understanding and analyzing the issues;
- Goal is to achieve balance, not disqualify.

Recognition of Outgoing Members of the TRB Executive Committee

TRB would like to express appreciation to the following outgoing members:

- ***Diane Gutierrez-Scaccetti*** – *Chair, TRB Executive Committee 2023-2024; Member, TRB Executive Committee 2019 - 2024*
- ***Nathaniel P. Ford*** – *Chair, TRB Executive Committee 2022-2023; Vice Chair, TRB Executive Committee 2021-2022; Member TRB Executive Committee, 2017-2024*
- ***Ginger Evans*** – *Member, TRB Executive Committee 2018-2024*

Thank you for your service to the TRB Executive Committee!



Executive Committee Meeting Minutes

June 28-29, 2023

National Academy of Sciences (NAS), Washington, DC

Wednesday, January 28, 2023

8:30 a.m.

Welcome and Announcements (Gutierrez-Scaccetti) Information

- a. Policy Statement on Preventing Discrimination, Harassment, and Bullying was noted.
- b. Bias/Conflict of Interest Discussion – There were no conflicts of interest reported, except potentially Randall Iwasaki, who said he now is serving on the board of an organization that works on port issues.

8:46 a.m.

Recognition of Outgoing Members of the Executive Committee (Gutierrez-Scaccetti) Presentation

8:47 a.m.

Approval of the June 15-16, 2022 Minutes (Gutierrez-Scaccetti) Action

- The minutes were approved.

8:48 a.m.

Approval of Consent Agenda (Gutierrez-Scaccetti) Action

8:50 a.m.

Executive Director's Report (Sheehan) Information

- She is delighted that Dianne Gutierrez-Scaccetti was able to fill in and become Chair this year.
- One endeavor the Academies is undertaking is the Climate Crossroads that showcases what all parts of the organization are doing around climate change.
- The policy session this afternoon will focus on roadway safety and equity, in a partnership with the Academies' Health and Medical Division's (HMD) Board on Medical Health, with part of the project aimed at highlighting policies that have worked across the world.
- The latest update on Critical Issues will be given during this meeting.
- We have looked inwardly to make sure we can show all the checks and balances are in place that we can document correctly in the aftermath of New York Times articles criticizing the Academies' acceptance of Sackler funding.
- Goals and metrics for TRB are outlined on the path to better defining success.
- She has been doing a lot of hand's on work with CRP, with Chris Hedges' retirement as an opportunity to really understand that program well.

- There was a discussion on the trends we're seeing about less volunteerism at least partly because of other transportation workforce demands.

9:35 a.m.

TRB Division Committee Report (Febey) Information

- We still have a long way to go but participation in TRB by under-represented groups continues to improve.

9:40 a.m.

Technical Activities Update (Grimes, Brach) Information

- Another way people can volunteer for TRB is through the TRR journal editorial board, which has 220 members, and this opportunity is not in MyTRB so it needs to be added.
- We continue to look at ways that make it more possible for TRB meetings and conferences to have hybrid options.
- We continue to want to push the message that TRB's non-Annual Meeting conferences are other really good options for professionals throughout the year.
- In a typical year, international attendance at the Annual Meeting is between 15% and 17%. The past conference was 14%; in comparison, 2019 was 19%.
- The Annual Meeting is not unusually expensive. We are competitive with other related conferences. Two differences are that we have a lot more content and don't provide meals.

10:10 a.m.

Consensus and Advisory Studies Update (Menzies) Information

- Details were given about the latest TRB/Academies consensus reports, including one on offshore oil in the Gulf, and upcoming ones on equity metrics in surface transportation and recycling plastic waste in infrastructure, including some possibly first-ever TRB work with the National Science Foundation.

10:40 a.m.

Break

11:05 a.m.

Communications Update (Mackie) Information

- A report was given on how strategic communications fits in so importantly into the TRB Strategic Plan and some of the metrics were given on recent communications and promotional successes.

11:15 a.m.

Critical Issues in Transportation Update (Shaheen) Action

- An overview was given of the graphics, outline and next steps for the upcoming Critical Issues publication.
- The latest draft and direction of the upcoming publication was approved to move forward.

11:45 a.m.

TRB Strategic Plan (Sheehan) Discussion

- A plan overview was given.

12 p.m.

Lunch

1:15 p.m.

Policy Session on Traffic Safety (Lewis, Retting, Smither, Herbert, Bowman, Sonderup) Presentations

- Traffic fatalities disproportionately affect non-white people.
- TRB research on equity, equity improvements in data collection by OMB were detailed, a NHTSA study, tribal transportation safety efforts, and multicultural communications strategies were each detailed in presentations.

2:30 p.m.

Policy Session Discussion (Lewis/All) Discussion

3:20 p.m.

Break

3:40 p.m.

Future Policy Sessions (Houston) Action

- There may be a change in format for the policy sessions.

4:15 p.m.

Break for Evening Activities

Thursday, June 29, 2023

8:40 a.m.

Policy Session Follow Up (Lewis, All) Discussion

- Transportation agencies need more help on education for public about unsafe practices much more than help on engineering issues.
- The role of TRB is to report best practices.
- There is a culture of selfishness in the U.S., as well as a lack of knowledge about the seriousness of transportation fatalities, that is worth further research.
- These issues are potentially worth exploring with the Academies' HMD and DBASSE divisions.

9:25 a.m.

Diversity and Inclusion Strategic Plan (Hall) Information

- A report was given on the many DEI efforts of TRB.

9:40 a.m.

International Subcommittee (Iwasaki) Information

- TRB continues to look into possible international agreements with several transportation research-focused organizations around the world.

10:05 a.m.

Marine Board Update (Philip) Information

- An update was given of the Marine Board's activities.

10:15 a.m.

Break

10:40 a.m.

Young Member's Council (Kontou) Information

- The Young Members Coordinating Council (YMCC) has continued to develop and promote opportunities for involvement, resources, connections, and representation in all levels of TRB.

10:50 a.m.

Cooperative Research Program Update (Houston) Information

- A report was given on the CRP projects that are relevant to Critical Issues topical areas.

11 a.m.

Critical Issues Implementation (Sheehan) Action

- A potential interactive site is being discussed as a way to present the information if we can get a budget secured and determine if the timeframe is possible to make such an effort happen. A PowerPoint presentation and handout would be helpful, but a website could possibly be more flexible.
- It was suggested to do media outreach, so the Executive Committee would be helpful to have as spokespeople.

11:30 a.m.

Other Business (Sheehan, Houston)

- The committee was briefed on TRB award nomination processes.

11:40 a.m.

Adjourn

Full list of attendees:

CHAIRS

- Diane Gutierrez-Scaccetti; Commissioner, New Jersey Department of Transportation
- Carol Lewis, Professor, Transportation Studies, Texas Southern University

MEMBERS

- Michael F. Ableson, CEO, Arrival Automotive-North America
- Carlos M. Bracerias, Executive Director, Utah Department of Transportation
- Douglas C. Ceva, VP Customer Lead Solutions, Prologis, Inc.
- Nancy T. Daubenberger, Commissioner of Transportation, Minnesota Department of Transportation
- Marie Therese Dominguez, Commissioner, New York State Department of Transportation
- Ginger Evans, President, Tower Consulting, LLC
- Stephen W. Hargarten, Director, Injury Research Center, Associate Dean, Office of Global Health, Professor of Emergency Medicine, Medical College of Wisconsin
- Randall Iwasaki, President and CEO, Iwasaki Consulting Services

- Hani S. Mahmassani, W.A. Patterson Distinguished Chair in Transportation Director, Northwestern University
- Russell McMurry, Commissioner, Georgia Department of Transportation
- Craig Philip, Research Professor and Director, VECTOR, Department of CEE, Vanderbilt University
- Leslie S. Richards, General Manager, Southeastern Pennsylvania Transportation

EX OFFICIO MEMBERS

- Michael R. Berube, Deputy Assistant Secretary for Sustainable Transportation, U.S. Department of Energy
- Tristan Brown, Deputy Administrator, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation
- Steven Cliff, Executive Officer, California Air Resources Board
- Nuria I. Fernandez, Administrator, Federal Transit Administration, U.S. Department of Transportation
- John T. Gray, Senior Vice President Policy and Economics Association of American Railroads
- Robert C. Hampshire, Deputy Assistant Secretary for Research and Technology, U.S. Department of Transportation
- Tom Keane, Federal Motor Carrier Safety Administration, U.S. Department of Transportation (Substitute for Robin Hutcheson)
- Eleftheria (Ria) Kontou, Assistant Professor, University of Illinois Urbana-Champaign
- Karl Simon, Director, Transportation and Climate Division, U.S. EPA Office of Transportation and Air Quality
- Jim Tymon, Executive Director, American Association of State Highway and Transportation Officials

Technical Activities Council Representatives

- George Avery Grimes, Chair, Technical Activities Council
- Tara Cavalline, Chair, Transportation Infrastructure Group
- William Eisele, Chair, Freight Systems Group
- Robert Hazlett, Chair, Data, Planning, and Analysis Group
- Eleftheria Kontou, Chair, Young Member Coordinating Council

VIRTUAL OBSERVERS

- William Anderson, Senior Program Officer, Transportation Research Board
- Nathaniel P. Ford, Chief Executive Officer, Jacksonville Transportation Authority
- Steve Godwin, Scholar, Transportation Research Board
- Tanisha Hall, Chair, TRB Special Committee on Diversity, Equity, and Inclusion
- Stephen W. Hargarten, Director, Injury Research Center, Associate Dean Office of Global Health, Professor of Emergency Medicine, Medical College of Wisconsin
- Ashby Johnson, Executive Director, Capital Area Metropolitan Planning Organization
- Joel M. Jundt, Secretary of Transportation, South Dakota Department of Transportation
- Scott Marler, Director Iowa Department of Transportation
- Paul Mackie, Director, Communications/Media, Transportation Research Board
- Michael R. McClellan, VP Strategic and Network Planning, Norfolk Southern Corporation
- Steward T.A. Pickett, Distinguished Senior Scientist, Cary Institute of Ecosystem Studies
- Susan Shaheen, Professor and Co-Director, TSRC, University of California, Berkeley

OTHER ATTENDEES

- Janet Frenkil, Federal Highway Administration
- Timothy Klein, Director, Technology, Policy, and Outreach, OST-R
- Mary Leary, Acting Associate Administrator, Office of Research, Demonstration, and Innovation, Federal Transit Administration
- Ricardo Martinez, Adjunct Professor, Emory University
- Kelly Regal, Associate Administrator for Research , Development, and Technology, Federal Highway Administration
- Connie Tang, Federal Highway Administration
- Matthew Welbes, Executive Director, Federal Transit Administration

TRB Staff

- Victoria Sheehan, Executive Director
- William Anderson, Senior Program Officer
- Ann M. Brach, Director, Technical Activities
- Scott Brotemarkle, Marine Board Program Director, Senior Program Officer
- Patrice Davenport, Deputy Director, TRB Program Development & Strategic Initiatives
- Karen S. Febey, Senior Report Review Officer
- Steve Godwin, Scholar
- Russell W. Houston, Associate Executive Director
- Katherine Kortum, Senior Program Officer
- Paul Mackie, Director, Communications/Media, Office of the Chief Communications Officer
- Stephen Maher, Deputy Division Director for Program Content, TRB Technical Activities Division
- Thomas Menzies, Director, Consensus and Advisory Studies
- Sierra Reffell, Executive Assistant
- Gary Walker, Senior Deputy Director, TRB Program Finance, Office of Chief Financial Office

Policy Session Speakers

- Norma Bowman, Deputy Division Director, Navajo Division of Transportation
- Gabrielle Herbert, Mathematical Statistician, NHTSA
- DeReece Smither, Research Psychologist, NHTSA
- Laura Sonderup, Managing Director, Heinrich Marketing, Inc.



TRANSPORTATION RESEARCH BOARD

December 13, 2024

MEMORANDUM

TO: Members, TRB Executive Committee
FROM: Russell Houston *RH*
SUBJECT: January 10, 2024, Policy Session on Workforce

Safe and efficient 24/7/365 transportation operations depend on having engaged, committed workforces, yet like nearly all sectors transportation is still rebounding from declines in labor-force participation during the COVID-19 pandemic.

The issues that transportation professionals must address are complex and contentious. They require employees from diverse backgrounds, with deep technical expertise, and with a multi-faceted skill set spanning multiple fields.

TRB's updated Critical Issues document highlights the heavy dependence of a successful transportation network on the quality of its workforce.

This session will explore workforce challenges faced in the marine industry, workforce challenges and potential solutions across the various modes, efforts to prime the future transportation workforce pipeline, and examples of workforce development efforts taking place within the industry.

This memo includes detailed agenda for the session. Brief biographies on our panel members are also included.

NATIONAL *Sciences*
ACADEMIES *Engineering*
Medicine

Keck 460, 500 Fifth Street, NW, Washington, DC 20001
Phone 202.334.3252 Email RHouston@nas.edu www.TRB.org

Session Agenda

Schedule **Wednesday, January 10, 2024**

- 8:45 a.m. Dr. Carol Lewis, Professor, Texas Southern University; and Vice Chair, TRB Executive Committee
Welcome and Session Introductions
- 8:50 a.m. Rear Admiral Ann Phillips (USN-Ret.), Administrator, U.S. Maritime Administration
Maritime Workforce Issues
- 9:10 a.m. Dr. Candace E. Blair Cronin, Senior Advisor, FMP (Federal Management Partners, Inc.)
Challenges and Solutions
- 9:30 a.m. Dr. Stephanie S. Ivey, Associate Dean for Research, and Professor, Herff College of Engineering, The University of Memphis
Growing Future Talent
- 9:50 a.m. Mr. Jorge Quezada, Vice President, People and Culture, Granite Construction; and Co-Chair, American Road and Transportation Builders Workforce Development Council
Real World Applications
- 10:10 a.m. *Plenary Discussion* – Moderated by Carol Lewis
- 11:55 a.m. Carol Lewis
Concluding Remarks
- 12:00 p.m. Carol Lewis
Adjourn

Policy Session Panelists Biographies

Rear Admiral, Ann C. Phillips, US Navy (Ret.)

Administrator

Maritime Administration



Rear Admiral Ann C. Phillips, US Navy (Ret.) was sworn in as the 20th Administrator for the Department of Transportation Maritime Administration on May 16, 2022. As head of the Maritime Administration, Phillips advises and assists the Secretary of Transportation on commercial maritime matters, to include the movement of goods, supply chain, as well as the U.S. maritime industry, environment and compliance, ports and waterways infrastructure, and strategic sealift. She engages public and private stakeholders in the maritime industry and oversees the U.S Merchant Marine Academy.

Phillips also oversees MARAD's programs to improve and modernize the nation's maritime network by administering the unprecedented investment in ports and waterways made possible by the Bipartisan Infrastructure Law, including \$2.25 billion to be awarded over the next five years through the Port Infrastructure Development Program and \$25 million for the America's Marine Highway Program.

Prior to this appointment, Phillips served as the first Special Assistant to the Governor of Virginia for Coastal Adaptation and Protection, where she built a collaborative, whole of government and community approach to address the impact of coastal flooding across the Commonwealth, including the development of Virginia's first Coastal Resilience Master Plan. In particular, she coordinated across Federal, State, local, and other partners to create equitable strategies to address rising waters and climate impact to federal, maritime, and other critical coastal infrastructure assets in Virginia.

Admiral Phillips served nearly 31 years as a surface warfare officer. Her final tour of duty, as Commander, Expeditionary Strike Group TWO, included the direct oversight of 14 ships and 10 subordinate commands - all the Amphibious Expeditionary Forces on the East Coast of the United States. Earlier, she served on the Chief of Naval Operations' Staff as Deputy Director and then Director of the Surface Warfare Division. Previous to those positions, she had the honor to commission and command the USS MUSTIN (DDG 89) and to command Destroyer Squadron 28.

Phillips earned a Master of Business Administration, with distinction, from The College of William & Mary – Raymond A. Mason School of Business - in 2016. She holds a B.A. from the University of North Carolina at Chapel Hill.

Dr. Candace E. Blair Cronin,
Senior Advisor,
FMP (Federal Management Partners, Inc.)



Dr. Stephanie S. Ivey
Associate Dean for Research, and Professor
Herff College of Engineering
The University of Memphis



Dr. Stephanie Ivey is a Professor with the Department of Civil Engineering and Associate Director of the Division of Transportation and Logistics with the Center for Applied Earth Science and Engineering Research. She also directs the Southeast Transportation Workforce Center at the University of Memphis and the West Tennessee STEM Hub, a regional K-12 outreach initiative.

Her research includes focus on community livability, transportation operations, and transportation planning and policy. Dr. Ivey has conducted education research, with special emphasis on transportation workforce development, partnerships between industry and academia, and increasing representation of women and underrepresented minorities in STEM.

She is a member of the Federal Reserve Bank of St. Louis Transportation Industry Council and the Transportation Research Board Standing Committee on Maintenance and Operations Management. She serves on the board of the Greater Memphis IT Council and TennSmart. She also serves as faculty advisor for the University of Memphis student chapter of the Institute of Transportation Engineers and is part of the ITE International STEM Committee.

Dr. Ivey has received numerous awards include the 2020 Engineering Educator of the Year, West TN Branch ASCE; the 2020 Wilbur S. Smith Distinguished Transportation Educator Award, ITE International; and the 2020 Excellence in Transportation Engineering Education Award, ITE Southern District

Mr. Jorge Quezada

Vice President
People and Culture
Granite Construction; and
Co-Chair
American Road and Transportation Builders Workforce Development Council



Jorge is Granite Construction's Vice President of People & Culture. In his role, he is responsible for Workforce Compliance and Inclusive Diversity, where he helps the company implement strategies that address Granite's guiding belief that diverse backgrounds, perspectives, cultures, and experiences enhance creativity and innovation. He brings an innovative approach to Diversity, Equity & Inclusion and looks to make a lasting impact at Granite and in the construction industry.

Before joining Granite, Jorge served as Senior Director of Diversity and Inclusion – Leadership Development at Northwestern Mutual and Chief Diversity Officer at Kraft Foods. He spent over 25 years at Allstate Insurance Company and held leadership roles in Human Resources, D&I, Product Operations, Product Development, Marketing, Claims, and Sales.

Throughout the years, Jorge has been active in civic and community organizations, such as the Association of Hispanic Professionals for Education, the Urban League of Orange County (CA), Big Brothers and Big Sisters of Los Angeles, Leadership Greater Chicago, the Latino Policy Forum, the Hispanic Alliance for Career Enhancement (HACE), the Chicago Posse Foundation.



TRANSPORTATION RESEARCH BOARD

December 15, 2024

MEMORANDUM

TO: Members, TRB Executive Committee
 FROM: Russell Houston *RH*
 SUBJECT: June 2024 Policy Session on Public Health

At its June 2023 meeting, the Executive Committee selected public health as the topic for its June 2024 Policy Session.

Critical Issues for 2024 and Beyond focuses on advancing public health as one of its five virtually important goals that transportation serves. Advancing public health along with mitigating and responding to climate change; promoting equity and inclusion; increasing safety; and building and sustaining a strong, competitive economy are seen as key building blocks to a thriving society.

Transportation benefits public health in many ways. It brings the food and other services that people depend on to them and provides access to health care, family, friends, education, worship, and other societal amenities. Transportation can also harm public health, including through crashes, vehicle emissions, noise, and reduced physical activity levels.

During the SPPR meeting in October 2023, the group recommended development of a panel to address:

- The lack of transportation as a barrier to accessing health care, which negatively affects both individual and population-level health outcomes. Transportation barriers can lead to missed appointments and delayed care, resulting in poorer long-term health outcomes, especially for chronic conditions. These barriers are especially pronounced for low-income and un- or under-insured individuals.
- Advancing the use of active transportation to generate positive health effects. Although the physiological mechanisms for improved health are not well understood, active travel, such as walking and cycling, is associated with important public health benefits, including reduced cardiovascular disease mortality, reduced risk of breast and colon cancer, and reduced risk of type 2 diabetes. However, it is

NATIONAL
ACADEMIES *Sciences
Engineering
Medicine*

Keck 460, 500 Fifth Street, NW, Washington, DC 20001
 Phone 202.334.3252 Email RHouston@nas.edu www.TRB.org

not clear how to most cost-effectively encourage more people to choose active travel when it is available.

- Addressing the health impacts of transportation on underrepresented communities. Low-income communities of color are disproportionately exposed to transportation emissions, noise, and traffic crashes, and disproportionately suffer adverse health and other consequences due to these exposures. PM2.5 from human activities, including motor vehicle emissions, also disproportionately harm people of color compared to their White peers, in part because people of color are more likely to live close to busy roads and highways. Both the costs and benefits of active transportation are inequitably distributed, with people of color experiencing more costs, including higher incidences of crashes when walking, and fewer benefits.

In conjunction with the Academies' Division of Health and Medicine and the Academy of Medicine, TRB will work to identify experts in these areas to participate in the June 2024 Executive Committee Policy Session.

NATIONAL ACADEMIES Sciences
Engineering
Medicine

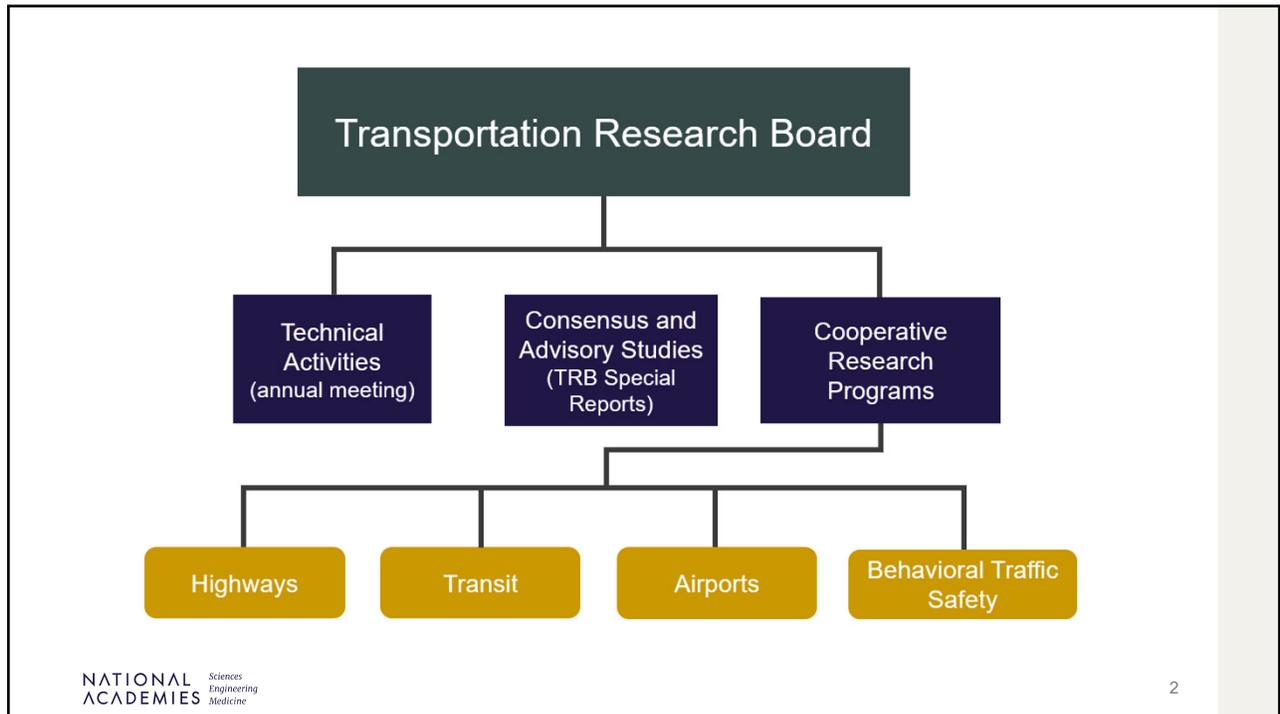
TRB TRANSPORTATION RESEARCH BOARD

Transportation Research Board

Victoria Sheehan

Executive Director's Report

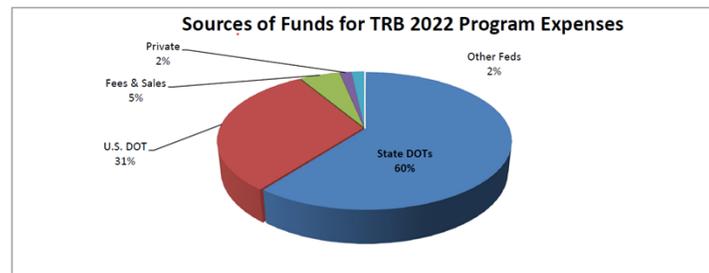
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2

TRB Spending by Program and Source(s) of Funds

	2022 Act.	2023 Est.
• Core Technical Activities	\$14.66M	\$16.02M
• Cooperative Research programs	\$66.58M	\$63.53M
• Rail Safety IDEA	\$482K	\$204K
• Evaluation of FHWA Research	\$174K	\$1.30M
• Policy Studies	\$4.06M	\$4.79M
• Conferences, Workshops, Forums	\$2.13M	\$2.86M
• Marine Board	\$345K	\$320K
• TOTAL	\$88.44M	\$89.02M



3

What/Who influences the products/services we provide and how we provide them.

Sponsors - Individual Agreements (contracts) with each sponsor

Source of Funds – Influences both type of work and how the work can be progressed.

National Academy of Sciences - Fiduciary Responsibility

National Academies – National Research Council Governing Board

Program Guidance – Division Committee (NRC), Executive Committee (Represent NRC and Sponsors) & Technical Activities Council (Represent Committees and Volunteers)

Responsibility for compliance – *TRB staff*

4

Resources to Sustain our work

Sponsors, Patrons & Global Affiliates

Engaged Employees & Volunteers



TRB Vision

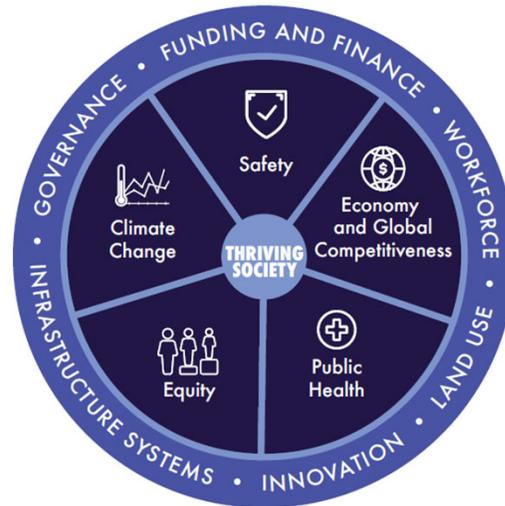
- A nation and a world that rely on scientific evidence and expertise about transportation to ensure a system that benefits individuals, society, and the environment.

TRB Mission Statement

- TRB mobilizes expertise, experience, and knowledge to anticipate and solve complex transportation-related challenges.

Critical Issues

The overall purpose of our transportation system is to help **develop and support a thriving society.**



7

Standing Committee Alignment with Critical Issues

- Decentralized websites – can't easily articulate what committees are discussing
- Triennial Plans – also not easily searched, or stale as much can change in 3 years
- Subcommittees- unofficial, who is serving, what are they focused on?
- A lot of collaboration is happening across committees – not easy to track
- There is overlap and redundancy – some is healthy, but needs to be minimized
- Coordinating Councils- Rural, City, Young Members, International and TAC.
- Conference topics – Frequency of conferences on each topic, lead to an inference of TRB's priorities.

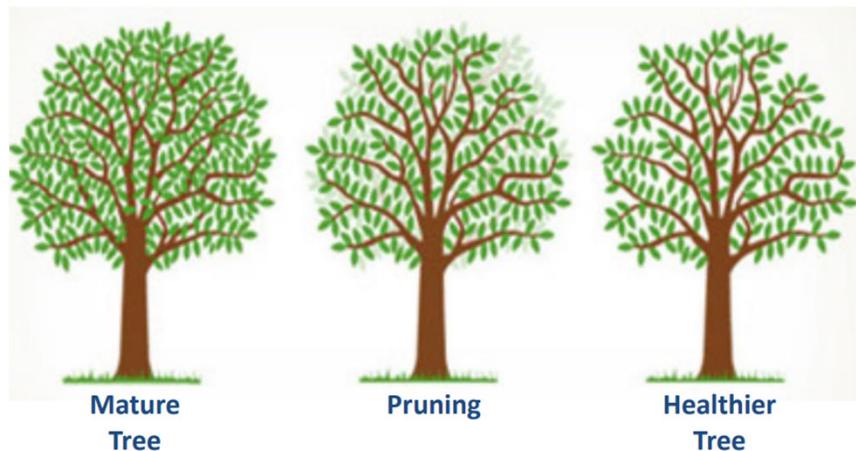
8

Objectives of Committee Restructuring

- Refresh Technical Activities committees to better identify and deliver transportation innovations to serve the country
- Attract and nurture the next generation of volunteers
- Foster greater collaboration across committees, building on our unique structure of multiple modes, disciplines, and sectors
- Create mechanisms to maintain a sustainable and agile organization well into the future

9

Objectives of Committee Restructuring



10

Expected Benefits

- A more agile structure that can change as needed to address evolving issues and needs.
- More coordination and collaboration across the structure to address multi-disciplinary and multi-modal issues.
- A culture more open to new people and ideas, sparking more creativity in the search for innovative solutions.
- Opportunities for volunteers to explore new ideas and connections.
- More visibility for the important work of the committees, which is critical for meeting our mission.
- Making best use of sponsor resources through prioritizing efforts and through regular assessment of committees and activities.

11

TRB Goals

1. Prepare transportation professionals and decision makers to address current and future transportation-related challenges and opportunities.
2. Expand TRB's impact and influence through its objective research, information exchange, and advisory activities.
3. Assure TRB's continued creativity, resilience, and sustainability in an ever-evolving world.

12

Technical Activities Division

Mission

The Technical Activities Division supports TRB's mission of promoting innovation and progress in transportation through research and information exchange by identifying needed research and research in progress, and disseminating completed research results.

Who We Are

The Technical Activities Division provides a forum for transportation professionals to identify, facilitate, and share research and information related to transportation. The Division carries out activities on behalf of TRB sponsors and the transportation community through a network of [nearly 200 standing committees](#) comprising more than 5,000 volunteers.

What We Do

- The [TRB Annual Meeting](#) is the largest transportation conference in the world with 800 sessions, workshops and 500 meetings that attracts nearly 14,000 professionals from around the globe. The Annual Meeting is held in January of every year in Washington, DC.
- [Conferences, Meetings, Webinars, and Workshops](#) are sponsored and cosponsored by many of the Division's standing committees.
- [Transportation Research Record \(TRR\)](#) publishes approximately 900 peer-reviewed papers each year in all transportation modes and related disciplines.
- Other Publications are produced by the Technical Activities Division that showcase transportation innovations and research results through [Conference Proceedings](#) and [Transportation Research Circulars](#).
- [Research Needs Statements](#) identify current gaps in research, encouraging researchers around the world to take up the challenge and fill these gaps.

13

Review of TRB Policies and Procedures

Composition and Balance, Conflicts of Interest, and Independence: Policies and Procedures

The National Academies of Science, Engineering, and Medicine have adopted policies that are intended to ensure that the hundreds of committees of volunteers appointed each year to participate in the work of the National Academies can successfully fulfill their charge. These policies address committee composition and balance, committee member conflicts of interest, and the independence of committee members from project sponsors. The policies and forms can be accessed through the following links:

Committees Used in the Development of Findings, Conclusions, and Recommendations

- [Policy on Composition and Balance, Conflicts of Interest, and Independence for Committees Used in the Development of Findings, Conclusions, and Recommendations](#)
- [Conflict of Interest and Disclosure Form for Committees Used in the Development of Findings, Conclusions, and Recommendations](#)

Committees Used to Plan Workshops, Symposia, and Other Similar Activities

- [Policy on Composition and Balance, Conflicts of Interest, and Independence for Committees Used to Plan Workshops, Symposia and Other Similar Activities](#)
- [Conflict of Interest and Disclosure Form for Committees Used to Plan Workshops, Symposia and Other Similar Activities](#)

Boards and Committees Used for Institutional Oversight

- [Policy on Composition and Balance and Conflicts of Interest for Boards and Committees Used for Institutional Oversight](#)
- [Conflict of Interest and Disclosure Form for Boards and Committees Used for Institutional Oversight](#)

14

Conflict of Interest

Statement on New York Times Article Regarding Sackler Family Donations to NAS

Statement | April 23, 2023

A New York Times article focuses on donations received by the National Academy of Sciences between 2000 and 2017 from the Sackler family. As the scale of the opioid epidemic in this country became clear, the NAS Council decided to freeze the use of these funds in 2019. We are deeply troubled by the human tragedy of the opioid epidemic, and are committed to responsibly disposing of, or repurposing, these funds.

The news article suggests that the donations from the Sacklers presented a conflict of interest for the National Academies' studies on chronic pain, opioid use, and ways to combat the opioid epidemic. The Sackler funds were never used to support an advisory study on these issues. It also is important to note that these funds were donated to the NAS, not the National Academy of Medicine.

We have been transparent about the Sackler funds, listing them in our annual treasurer's reports and elsewhere. The National Academies have many checks and balances to protect the integrity, independence, and objectivity of our evidence-based study process, including welcoming public comment on committee nominees, our long-standing peer-review procedure, and our updated [conflict-of-interest](#) policy. Ensuring that volunteer committee members remain aware of and adhere to our policies on conflict of interest and disclosure is an essential part of our process.

The NAS Council has explored several options, including returning the funds. There are a range of contractual, legal, and practical considerations that affect our ability to return or repurpose the funds. Doing so in an ethical and transparent manner will be the most important consideration.

Contact:
Office of News and Public Information
news@nas.edu



Diversity, Equity, and Inclusion (DE&I) Strategic Plan

Mission

TRB's Diversity, Equity, and Inclusion (DE&I) Initiative's mission is to create and foster an inclusive environment that leads to increased diversity of participants in TRB and equitable outcomes for the transportation system.

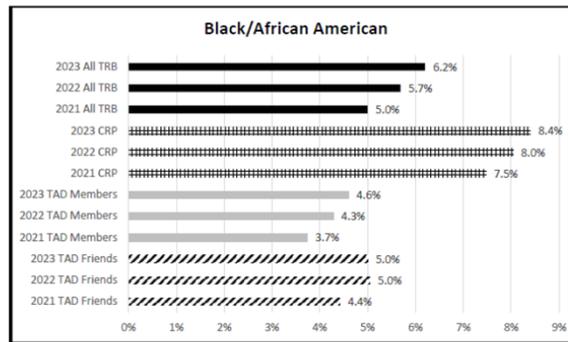


Diversity Data and Surveys

- Positive – Response rate is increasing

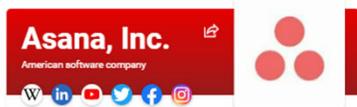
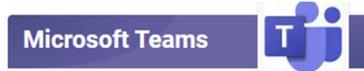
	TAD Friends			TAD Members			CRP			All TRB		
	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023
N Unique Volunteers	17143	18991	18711	4623	4419	4171	3166	3425	3351	7009	7024	6740
N Reporting Race/Ethnicity	4120	8047	11180	2114	3248	3549	1084	2028	2636	2621	4574	5462
Response Rate	24%	42.4%	59.8%	45.7%	73.5%	85%	34.2%	59.2%	78.7%	37.4%	65%	81%

- Negative – Makes it challenging to measure progress



17

Technology



SharePoint / Dropbox/ Google docs.

Aptify – My TRB

Workfront

Need an overall strategy on how best to you these tools

18

Committee Websites

Women and Gender in Transportation
Transportation Research Board Standing Committee (AME20)

Home About Events TRBAM Triennial Strategic Plan Emerging Scholars Resources Contact



Coming in 2024:

7th International Conference on Women and Gender in Transportation
Progress and Possibilities: Bridging perspectives

Save the date!
September 9-11th, 2024
Irvine, California (USA)

19

Interactions Going Forward

- Need volunteer input, but we need to collect it in an organized way
- Survey fatigue
- More frequent virtual events for Committee Chairs – town halls/webinars
- Staff resources to make the changes that are necessary
- Aligning oversight bodies to most effectively utilize their experience and expertise.
- Immense gratitude for volunteer contributions, but need to take direction from staff

20

Gratitude

- Warm welcome – Entire TRB community, especially the Executive Committee, Committee Chairs, and Staff.
- Support from National Academies' leadership.
- Support from the leadership of the Ex. Committee.
- Ongoing resilience and adaptability of the TRB staff.
- Continued commitment, dedication, of TRB's volunteers.
- Financial support from TRB's sponsors, global affiliates, patrons, exhibitors, and individuals.
- Thank you!!

Table 1

TRB Spending by Program and Source(s) of Funds

	2021 act.	2022 act.	2023 est.	2022 Source(s) of Funds
Core Technical Activities	\$14,049,000	\$14,659,000	\$16,015,000	State DOTs (56%), Fees & Sales (20%), Other (14%), FHWA (10%)
Cooperative Research Programs				
NCHRP	\$40,463,000	\$45,215,000	\$41,882,000	State DOTs (99.5%) FHWA (.5%)
ACRP	\$12,476,000	\$13,994,000	\$14,225,000	FAA
TCRP	\$4,687,000	\$5,277,000	\$5,125,000	FTA
BTSCRCP	\$1,675,000	\$2,092,000	\$2,303,000	NHTSA/GHSA
Rail Safety IDEA	\$223,000	\$482,000	\$204,000	FRA
Evaluation of FHWA Research Projects	\$715,000	\$174,000	\$1,302,000	FHWA
Policy Studies	\$2,611,000	\$4,061,000	\$4,786,000	OST-R (22%), PHMSA (20%), Coast Guard (16%), FAA (12%), FHWA (12%), Policy Fund (6%), FMCSA (4%), EPA (4%), FRA (2%), Other (2%)
Conferences, Workshops, Forums & Centennial	\$1,393,000	\$2,134,000	\$2,864,000	Registration Fees/Core (84%), Other (6%), FHWA (5%), State DOTs (5%)
Marine Board	\$345,000	\$348,000	\$320,000	Army (24%), Coast Guard (24%), ONR (21%), NOAA (13%), BSEE (9%), MARAD (6%), Navy (4%)
Total	\$78,637,000	\$88,436,000	\$89,026,000	

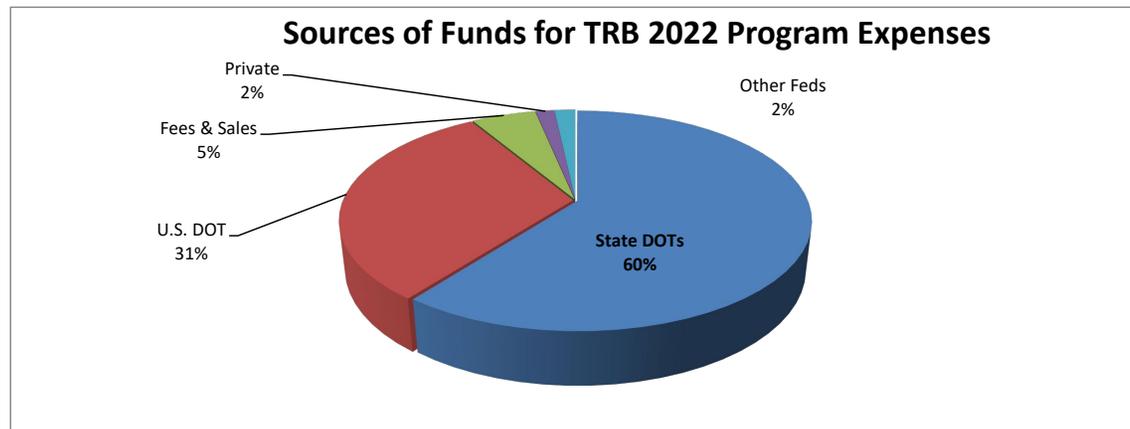


Table 2

TRB CORE BUDGET ESTIMATE FOR SIX FISCAL YEARS (July 1 - June 30)

	FY2023 (act)	FY2024	FY2025	FY2026	FY2027	FY2028
Revenue						
State Highway & Transportation Departments (State DOTs)	9,201,000	9,385,000	9,573,000	9,764,000	9,959,200	10,158,000
Federal Highway Administration (FHWA)	1,400,000	1,400,000	1,400,000	1,400,000	1,400,000	1,400,000
Other Federal Agencies						
Office of the Assistant Secretary for Research and Technology (OST-R)	300,000	300,000	300,000	300,000	300,000	300,000
Federal Transit Administration (FTA)	250,000	344,000	375,000	375,000	375,000	375,000
National Highway Traffic Safety Administration (NHTSA)	250,000	250,000	250,000	250,000	250,000	250,000
Federal Motor Carrier Safety Administration (FMCSA)	77,000	79,000	81,000	83,000	85,000	87,000
Federal Aviation Administration (FAA)	77,000	79,000	81,000	83,000	85,000	87,000
Federal Railroad Administration (FRA)	77,000	79,000	81,000	83,000	85,000	87,000
Pipeline and Hazardous Materials Safety Administration (PHMSA)	77,000	79,000	81,000	83,000	85,000	87,000
USDOT Office of the Under Secretary for Policy	77,000	79,000	81,000	83,000	85,000	87,000
Department of The Interior (DOI)	85,000	85,000	85,000	85,000	85,000	87,000
Department of Energy (DOE)	77,000	79,000	81,000	83,000	85,000	87,000
Environmental Protection Agency (EPA)	77,000	79,000	81,000	83,000	85,000	87,000
Army Corps of Engineers (COE)	77,000	79,000	81,000	83,000	85,000	87,000
	<u>1,501,000</u>	<u>1,611,000</u>	<u>1,658,000</u>	<u>1,674,000</u>	<u>1,775,000</u>	<u>1,795,000</u>
Other Non-Federal						
Association of American Railroads (AAR)	77,000	79,000	81,000	83,000	85,000	87,000
American Public Transportation Association (APTA)	77,000	79,000	81,000	83,000	85,000	87,000
California Air Resources Board (CARB)	82,000	84,000	86,000	88,000	90,000	92,000
	<u>236,000</u>	<u>242,000</u>	<u>248,000</u>	<u>254,000</u>	<u>260,000</u>	<u>266,000</u>
TRB Fees & Sales	6,175,000	6,422,000	6,679,000	6,946,000	7,224,000	7,513,000
	<u>18,513,000</u>	<u>19,060,000</u>	<u>19,558,000</u>	<u>20,038,000</u>	<u>20,618,200</u>	<u>21,132,000</u>
Expenses						
Personnel Related Expenses	12,313,000	12,962,000	16,304,000	17,506,000	18,656,000	19,252,000
AM Logistics and Travel	2,012,000	2,300,000	2,369,000	2,440,000	2,513,000	2,588,000
Library, Publishing & Report Production	1,030,000	1,061,000	1,195,000	1,231,000	1,268,000	1,306,000
Staff/Committee Travel & Meetings	75,000	160,000	200,000	206,000	212,000	218,000
Other Costs	145,000	215,000	220,000	227,000	234,000	241,000
	<u>15,575,000</u>	<u>16,698,000</u>	<u>20,288,000</u>	<u>21,610,000</u>	<u>22,883,000</u>	<u>23,605,000</u>
Reserves						
Yearly Surplus/(Deficit)	2,938,000	2,362,000	(730,000)	(1,572,000)	(2,264,800)	(2,473,000)
Reserve Fund Balance	22,934,869	25,296,869	24,566,869	22,994,869	20,730,069	18,257,069
Percent of Core Operating Year	137%	125%	114%	100%	88%	75%

**TRB Technical Activities Division Read-Ahead Information
For January 2024 Executive Committee meeting
December 2023**

Committees

Committee activity focused on paper review and Annual Meeting session planning during this period. Approximately 7,000 reviewers conducted almost 20,000 reviews in a matter of a few weeks. Committees developed more than 600 technical sessions for the Annual Meeting.

As part of NASEM program and policy reviews, TAD is looking at its policies and procedures to see which ones may need to be updated. We are starting with policies related to committee make-up and rotation as well as bias and conflict of interest processes. So far, committee membership and rotation policies have been modified to more closely mirror general NASEM policies, taking into consideration relevant differences between TAD committees and consensus studies committees and research project panels. Committee chairs have been asked for input to the bias and conflict of interest issue and TRB leadership will discuss the issue with all chairs during the 2024 Annual Meeting before taking actions, which will also be reviewed and approved by NASEM leadership.

Concurrently and in response to Technical Activities Council (TAC) requests, guidance on subcommittees and coordinating councils is under review to take into consideration experiences gained since the committees were restructured in 2020. In addition, a committee expectations document and a committee member expectations document will be drafted.

Annual Meeting

By the August 1 paper submission deadline, 6500 papers were submitted for consideration for the 2024 Annual Meeting, setting a new record for paper submissions. Staff spent early August assigning papers to the appropriate committees for review and then oversaw the paper review by volunteers between August and September. In September committees finalized their paper selections and developed the sessions they will sponsor at the 2024 Annual Meeting.

The Annual Meeting registration site opened in mid-September. Registration is looking very good at this time (early December).

The final program for the 2024 Annual Meeting was posted on the Annual Meeting website in November.

An updated report on the Annual Meeting will be provided in-person at the Executive Committee's January meeting.

Research Needs Statements

Committees posted or updated 17 Research Needs Statements since June:

- Addressing Current Issues in Aviation Safety, AV090, Standing Committee on Aviation Safety, Security and Emergency Management
- Building Resilience Toward Emerging Global Threats on Aviation, AV090, Standing Committee on Aviation Safety, Security and Emergency Management
- Cost-effective guidelines for sustainable and safe transportation behavior change programs, AEP60, Standing Committee on Transportation Demand Management

- Design Guidelines for Bridge Pile Foundations Subjected to Combined Inertial and Liquefaction-Induced Lateral Spreading Loads, AKB50, Standing Committee on Seismic Design and Performance of Bridges
- Emerging Safety Hazards in Commercial Aviation, AV090, Standing Committee on Aviation Safety, Security and Emergency Management
- Engineering Requirements for Measurement of Pavement Condition Using Emerging Technology, AKP50, Standing Committee on Pavement Surface Properties and Vehicle Interaction
- Ensuring Safe Higher-Airspace Operations, AV090, Standing Committee on Aviation Safety, Security and Emergency Management
- Feasibility Evaluation and Guidance Development for Implementing Practical Aging Protocols for Balanced Mix Design (BMD) Verification and Acceptance, AKM30, Standing Committee on Asphalt Materials Selection and Mix Design
- Impact of Directionality in Response Spectra on Seismic Bridge Design, AKB50, Standing Committee on Seismic Design and Performance of Bridges
- Impacts of the Federal RTPO Designation, AEP15, Standing Committee on Transportation Planning Analysis and Application
- National Database of Geomaterial Properties for Pavement Foundation Design, AKG40, Standing Committee on Mechanics and Drainage of Saturated and Unsaturated Geomaterials
- Optimized Friction Treatment Strategies, AKP50, Standing Committee on Pavement Surface Properties and Vehicle Interaction
- Safety Implications of Hydrogen at Airports, AV090, Standing Committee on Aviation Safety, Security and Emergency Management
- Satellite Moisture Data for Transportation Infrastructure Monitoring, AKG40, Standing Committee on Mechanics and Drainage of Saturated and Unsaturated Geomaterials
- Social Equity Impacts of Intercity Passenger Rail Service, AR010, Standing Committee on Passenger Rail Transportation
- The Role of Public-Private Partnerships (P3s) for Delivering New and Expanded Intercity Passenger Rail Service, AR010, Standing Committee on Passenger Rail Transportation
- Understanding Passenger Rail Demand Post-COVID, AR010, Standing Committee on Passenger Rail Transportation

Conferences, Workshops, Committee Meetings

Since June TRB convened 6 conferences or workshops:

- Transportation Resilience 2023: International Conference on Extreme Weather and Climate Change Challenges, *November 13-15, 2023*
- Innovations in Freight Data Workshop, *September 19-21, 2023*
- International Conference on Low Volume Roads, *July 23-26, 2023*
- Workshop on Transportation Law, *July 23-26, 2023*
- Automated Road Transportation Symposium, *July 9-13, 2023*
- National Conference on Transportation Asset Management, *July 8-11, 2023*

Ten committees held formal in-person committee meetings, in addition to many virtual committee and subcommittee meetings:

- Native American Transportation Issues Committee (AME30) Midyear Meeting, *September 24-28, 2023*
- Managed Lanes Committee (ACP35) Midyear Meeting, *September 18-20, 2023*

- Highway Capacity and Quality of Service Committee (ACP40) Midyear Meeting, *August 23-24, 2023*
- Traffic Simulation Committee (ACP80) Midyear Meeting, *August 7-9 2023*
- Equity in Transportation Committee (AME10) Midyear Meeting, *July 11, 2023*
- Safety Performance and Analysis Committee Midyear, *June 28-30, 2023*
- Design Section Committees (AKD10, AKD40, AKD70 and AKR20) Midyear Meeting, *June 26-28, 2023*

TRB also co-sponsored three conferences convened by other organizations:

- Highway Geology Symposium*, *August 13, 2023*
- Bridging Transportation Researchers Conference*, *August 9, 2023*
- Bridge Engineering Institute Conference*, *July 17, 2023*

Webinars

From July through December, forty-eight webinars were or will be produced (note that webinars can be from TAD, CRP, or the TRB Executive Office; approximate half are from TAD committees):

- National Digital Infrastructure Strategy and Roadway Operations Data Exchanges, *December 1, 2023*
- Sustainable and Low-Carbon Solutions for Asphalt Pavements, *December 4, 2023*
- Climate Resilient Design for Culverts and Pavements, *December 5, 2023*
- Understanding Evacuation Behavior and Regional Resilience, *December 11, 2023*
- Next Stop—Inclusive Virtual Public Involvement, *December 12, 2023*
- Utilizing External Data Sources for Maintenance Decision Making, *December 13, 2023*
- Optimizing Data Quality within Maintenance Management Systems, *November 30, 2023*
- Advancing Equity in Travel Experiences—The Role of Gender and Identity, *November 29, 2023*
- Accessible Floating Bus Stops, *November 28, 2023*
- Solutions for Resilient Supply Chain Management,
- Alternative Services for ADA Paratransit Riders,
- Let's Catch a Bus—Understanding Health Impacts and Public Transit Equity, *November 9, 2023*
- Airfield Design Principles and Unmanned Aircraft Systems, *November 9, 2023*
- Accommodating Utilities in Highway and Freeway Right-of-Way, *November 6, 2023*
- Mitigating Air Pollution Exposures from Transportation,
- Demonstrated Performance of Buried Bridges, *October 31, 2023*
- Superpave Volumetric Mix Design—Beyond the Basics,
- Geotechnical Exploration and Workflow for Scour and Erosion Risk Assessment, *October 25, 2023*
- Cloud Computing for Next Generation Traffic Management Systems, *October 25, 2023*
- Developing Airport Programs to Combat Human Trafficking, *October 25, 2023*
- Airport Insurance Requirements, *October 23, 2023*
- Using Ultra-High Performance Concrete for Bridges,
- Portland Cement Concrete Pavement Joint Sealant Practices, *October 12, 2023*
- Pedestrian and Bicycle Safety in BRT and High-Priority Bus Corridors, *October 11, 2023*
- Pop-Up Power—Research and Practice on Quick-Build Bike Facilities, *October 10, 2023*

- Societal Perceptions of Impaired Driving and Strategies for Law Enforcement, *October 3, 2023*
- The Value of Access Management—Tools for Difficult Conversations, *September 28, 2023*
- Systematic Inequality in the Airport Industry—Exploring the Racial Divide, *September 27, 2023*
- Enhancing Wheelchair Accessibility on Commercial Service Aircraft, *September 25, 2023*
- Advancing the Practice of State Aviation System Planning, *September 21, 2023*
- Guidelines for Adjacent Precast Concrete Box Beam Bridge Systems, *September 20, 2023*
- Maximizing the Power of the Research in Progress (RIP) Database, *September 19, 2023*
- Implementation of Inverted Pavements, *September 18, 2023*
- Can You See Me? Testing Pedestrian and Bicycle Conspicuity Assumptions, *September 14, 2023*
- Safe System Approach to Substance Abuse, *September 12, 2023*
- Context-Based Classification in Roadway Planning and Design, *September 7, 2023*
- Accelerated Bridge Construction Programmatic Implementation, *August 30, 2023*
- Successful Environmental Justice Planning, *August 29, 2023*
- TRID—Your Lifelong Learning Tool for Transportation Research, *August 22, 2023*
- Life-Cycle Assessment for Pavements and Transportation Infrastructure, *August 17, 2023*
- Substance Misuse in Commercial Aviation: Report Release Webinar, *August 15, 2023*
- Climate-Resilient, Low-Volume Road Design and Management, *August 7, 2023*
- Transportation Resilience Addressing Climate Change Challenges, *July 26, 2023*
- Strategies for Airport Parking Pricing, *July 24, 2023*
- Community-Based and Equitable Transportation Response in Disaster, *July 18, 2023*
- Getting the Facts Straight about the DBE Program, *July 13, 2023*
- Unleashing the Power of Fusion in Travel Demand Analysis, *July 13, 2023*
- Fostering Sustainability through Freight-Efficient Land Uses, *July 10, 2023*

Transportation Research Information Services (TRIS), TRB Library, and related resources

A major resource in TRIS is the Transportation Research International Documentation (TRID) database which provides access to 1.4 million records of transportation research worldwide. Seventy-eight reports published by TRB were added to TRID in the 3rd quarter of 2023 (4th quarter data are not yet available).

United States usage of TRID for the third quarter of 2023 are as follows;

85,374 users
83,322 new users
120,121 sessions

The top five states in usage this quarter:

California	10,341 users
Texas	7,625 users
New York	5,172 users
Virginia	5,077 users
Florida	4,731 users

The TRB Library conducted a free webinar on how to use another TRB resource, the Research in Progress Database. This webinar, Maximizing the Power of the Research in Progress (RIP) Database taught users to 1) locate records in RIP using the public search interface; 2) enter project records for their organization; and 3) modify and delete existing records.

TRB's Library also maintains a Transportation Research Thesaurus (TRT). Four new TRT terms were added this quarter: *Historically marginalized persons*;, *Latinos*, *Native Hawaiians or Other Pacific Islanders*, *Transportation Equity*, *Underserved communities*.

The Library also produced two New "Snap Searches," which provide in one place links to an array of TRB products and activities in a given area. The new searches are:

- Data/Information Management and Knowledge Management
- Risk Management

In addition, sixteen existing Snap Searches were updated this quarter:

Accessibility	Air Quality & Climate Change
Aviation	Communicable Diseases & Public Health
Cybersecurity	Environment & Sustainability
Innovation	Legal Research
Materials	Rural Transportation
Safety & Human Factors	Shared Mobility
Travel Behavior	Tribal Transportation
UAS/UAV	Workforce

Publications

Two issues of TRB's magazine, **TRNews**, were published since June:

- The July-August issue (#346) explores the theme of transportation-related advancements in accessibility and mobility. From individuals with disabilities that affect the senses and physical movement to the concerns of older adults and those with invisible disabilities that present cognitive issues, the authors look at innovations and their applications in myriad settings that make transportation for this population easier or, at times, possible for everyday living, and much more.
- The September-December issue (#347) is focused on transportation in rural America and explores topics such as the availability of automated vehicles and associated infrastructure, how research and workshops inform transportation along low-volume roads, and how a vast network of airports serves Alaska's traveling public.

Six monthly issues of the **Transportation Research Record (TRR journal)**, with a total of 340 articles, were published during since June.

REPORT OF THE TRANSPORTATION RESEARCH BOARD DIVISION COMMITTEE June through December 2023

BACKGROUND

The Transportation Research Board (TRB) Division Committee (Div-Comm) liaises between the Governing Board of the National Research Council (NRC) and TRB. The Div-Comm ensures that TRB meets the NRC's standards for objectivity and ensures that its activities are appropriate for the NRC. In addition, the Div-Comm monitors TRB's specially funded project committees and panel appointments, report review, and programs that are approved by the NRC Governing Board. The Div-Comm Chair assists the Executive Committee with special project approvals requested of the NRC Governing Board.

Members of the 2023/2024 Div-Comm are Chris Hendrickson (NAE), Chair; Nathaniel Ford, Outgoing Executive Committee Chair; Diana Gutierrez-Scaccetti, Executive Committee Chair; Joel Jundt, State DOT Representative; Tanisha Hall, Special Committee on Diversity, Equity, and Inclusion Chair; Carol Lewis, Incoming Executive Committee Chair; and Craig Philip (NAE), Academy Member Representative. Special thanks to Nathaniel Ford who is concluding his term.

OVERSIGHT ACTIVITIES

The following projects and committees were approved by the NRC Governing Board Executive Committee from June through December 2023. Yearly totals for oversight activities for 2023 and previous years are on p.3.

Committee and Panel Approvals

The Div-Comm Chair approved appointments to 3 CAAS committees and 39 CRP panels from June 1, 2023 through December 31, 2023:

Consensus and Advisory Studies (CAAS) (Division B)

- Forum on Accelerating Transformative Technologies in Transportation
- Symposium on the Future of Transportation and the Role of European-U.S. Collaboration
- Workshop on the Capacity of Community Colleges and Minority Serving Institutions to Advance Diversity in the Transportation Workforce

Cooperative Research Programs (CRP) (Division D)

- 15 from the Airport Cooperative Research Program (ACRP)
- 6 from the Behavioral Traffic Safety Cooperative Research Program (BTSCR)
- 4 from the National Cooperative Highway Research Program (NCHRP)
- 14 from the Transit Cooperative Research Program (TCRP)

Report Review

From June through December 2023, the Div-Comm oversaw reviews of 4 reports from CAAS and 98 projects from the CRPs:

Program	Research	Syntheses	Legal	Conference Summary	Totals
ACRP	11	4	1	1	17
BTSCRCP	2	0	0	0	2
NCHRP	49	18	0	0	67
TCRP	4	3	1	0	8
Totals	66	25	2	1	94

The CAAS reports were as follows:

- Critical Issues in Transportation for 2023 and Beyond
- Elevating Equity in Transportation Decision Making: Recommendations for Federal Competitive Grant Programs
- Ensuring Timely Pipeline Shutdowns in Emergencies: When to Install Rupture Mitigation Valves?
- Transit Research and Development: Federal Role

TRB Division Committee Data: 2014-2023

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
CRP Projects	149	87	116	149	118	131	90	102	151	98
Consensus Study Letter Reports	6	5	8	8	4	4	0	0	2	3
Full-Length Consensus Study Reports	2	8	2	3	8	3	5	7	3	5
Conference Reports from TAD and the CRPs	2	2	3	2	6	2	1	0	2	2
SHRP 2 Reports	24	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Meeting-in-Brief	1	1	0	0	0	0	0	0	0	0
Totals	184	106	126	162	136	140	96	109	159	107

CRP Panels

CRP Panels	67	74	51	71	79	84	84	120	149	98
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NRC-Approved Committees

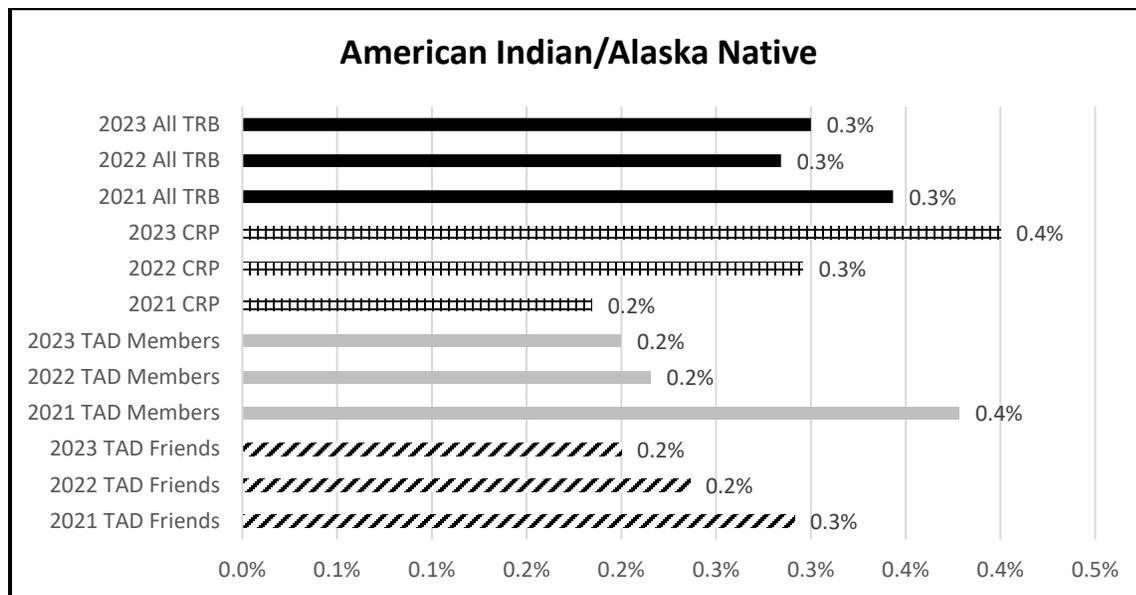
Technical Activities Division	4	6	0	1	1	1	3	0	0	0
Consensus and Advisory Studies	4	4	5	8	3	4	4	4	4	3
Cooperative Research Programs	0	0	4	0	3	1	2	0	0	1
SHRP 2	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Totals	9	10	5	9	4	6	9	4	4	4

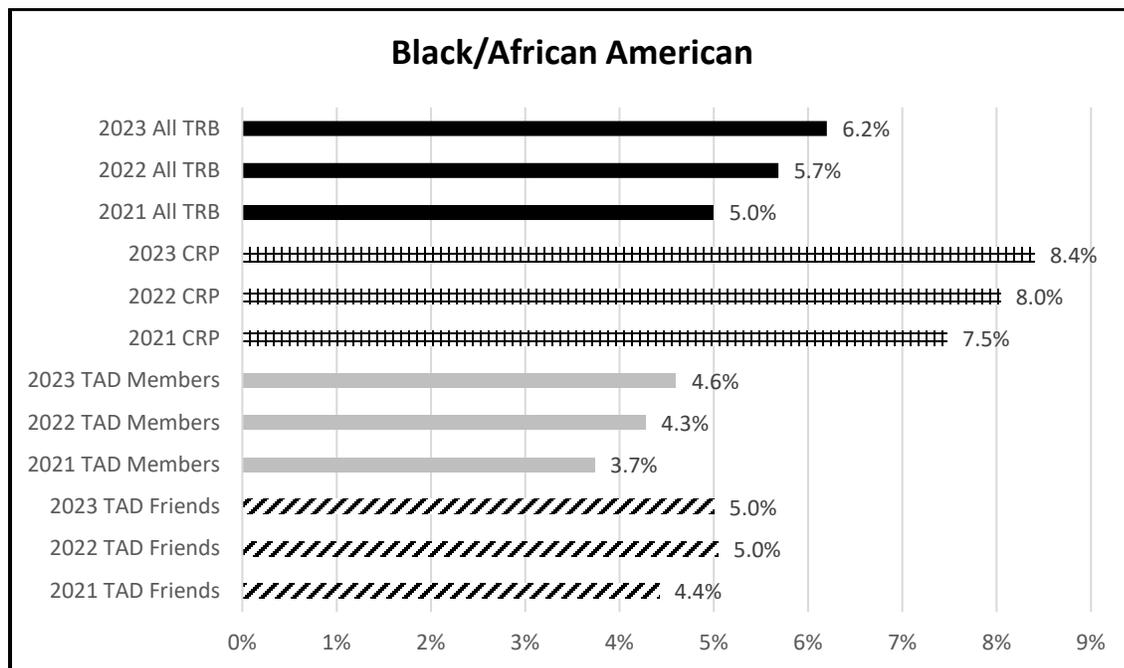
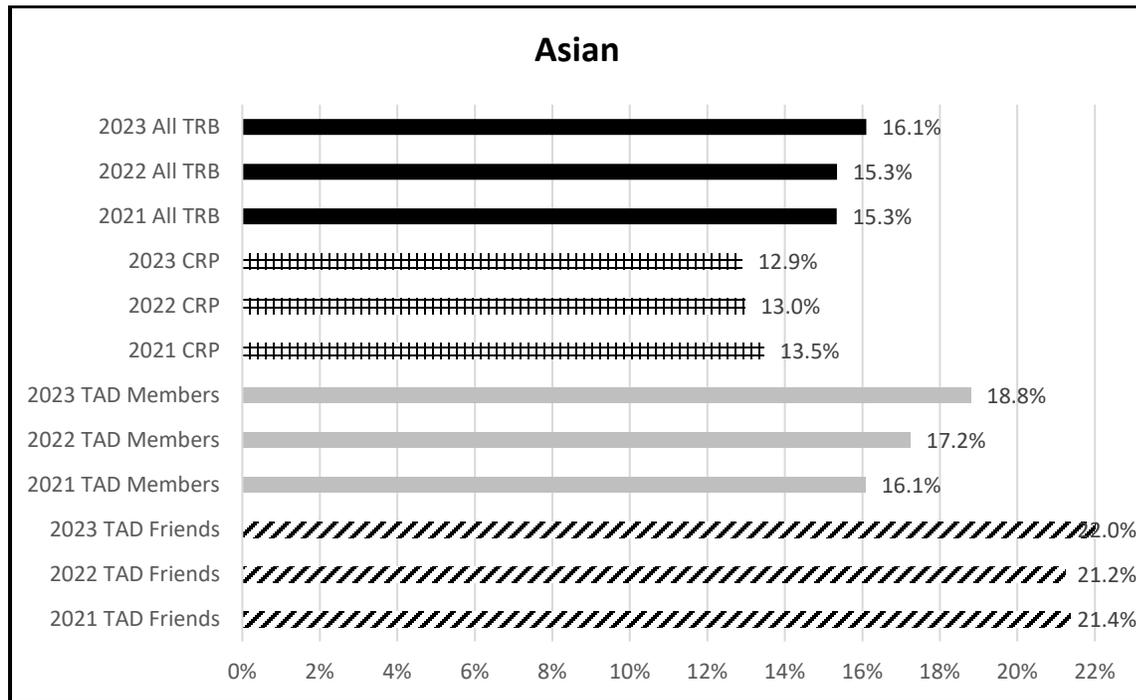
Involvement in TRB by Race/Ethnicity and Sex

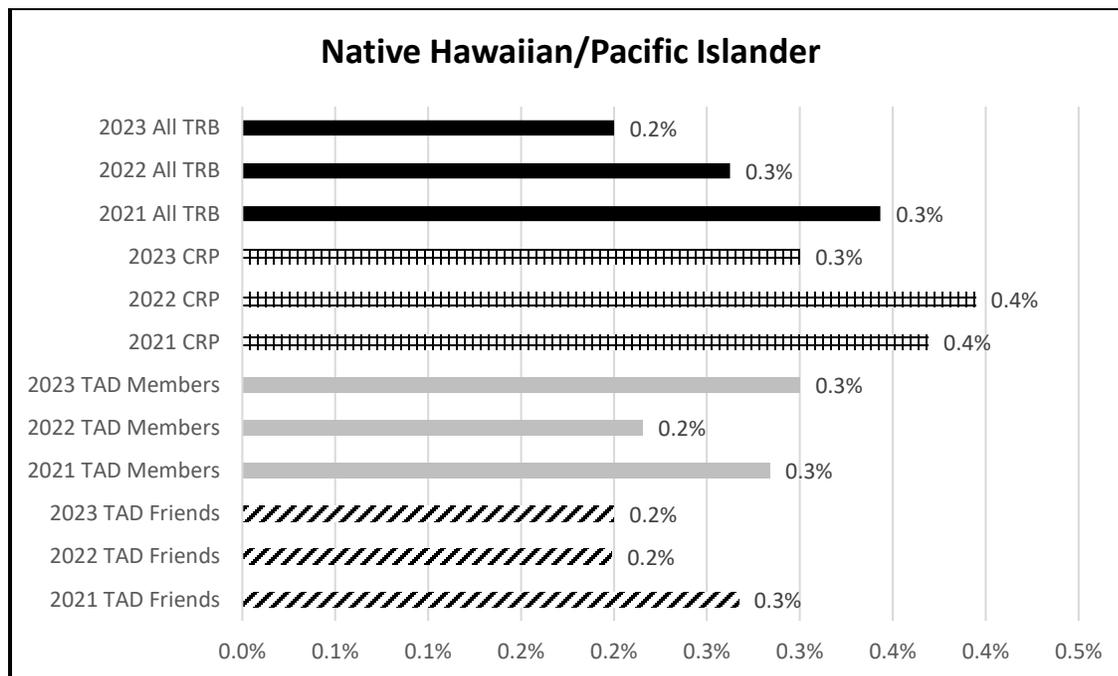
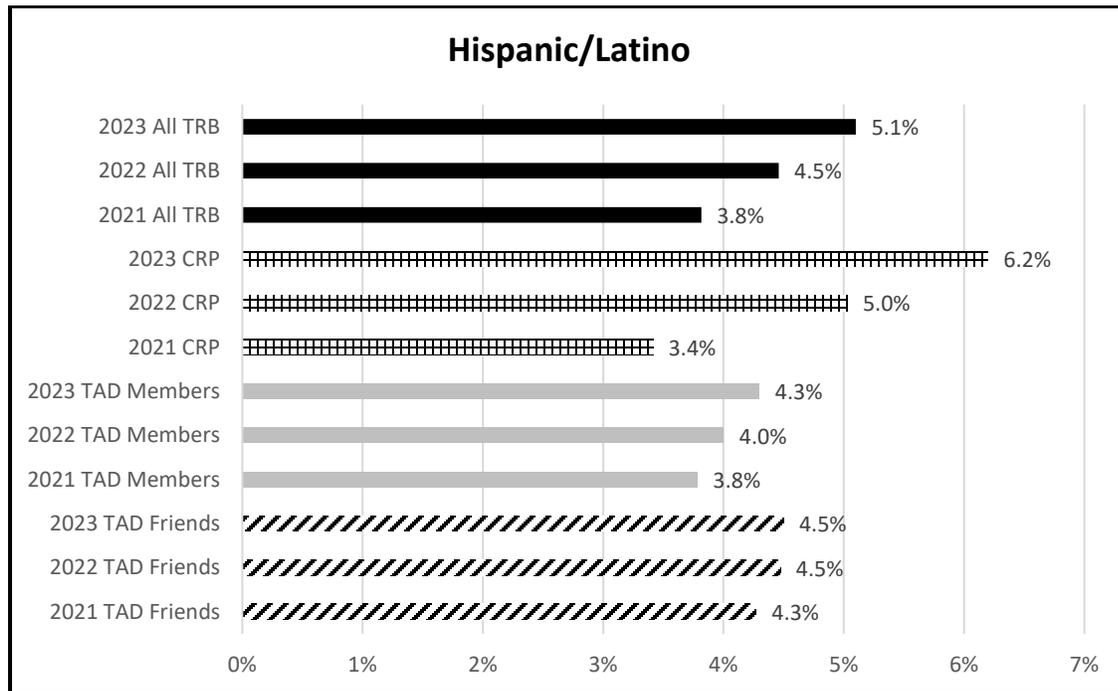
The Div-Comm monitors TRB’s progress in broadening participation of minorities and women as volunteers of standing committees in TAD, members of CRP panels, and committee members in the Consensus and Advisory Studies (CAAS) Division. When reporting their demographic data, volunteers can select one or more category to report their race and ethnicity. In this report, only those who reported their race or ethnicity in one category are included because of the small number of volunteers who reported their race or ethnicity in more than one category.

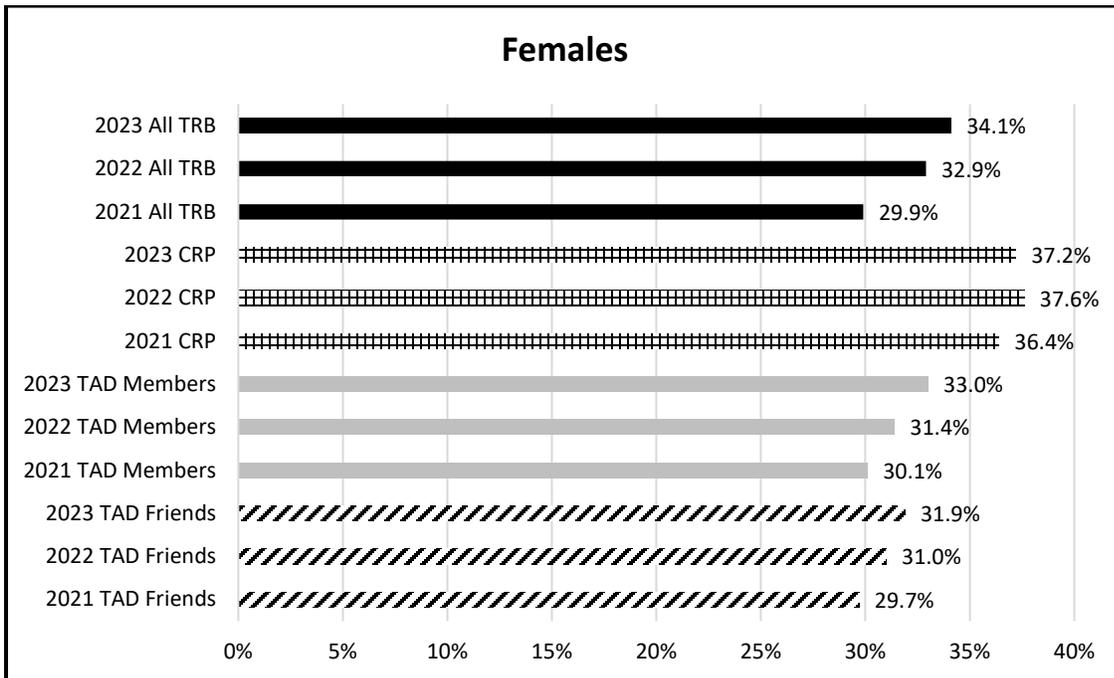
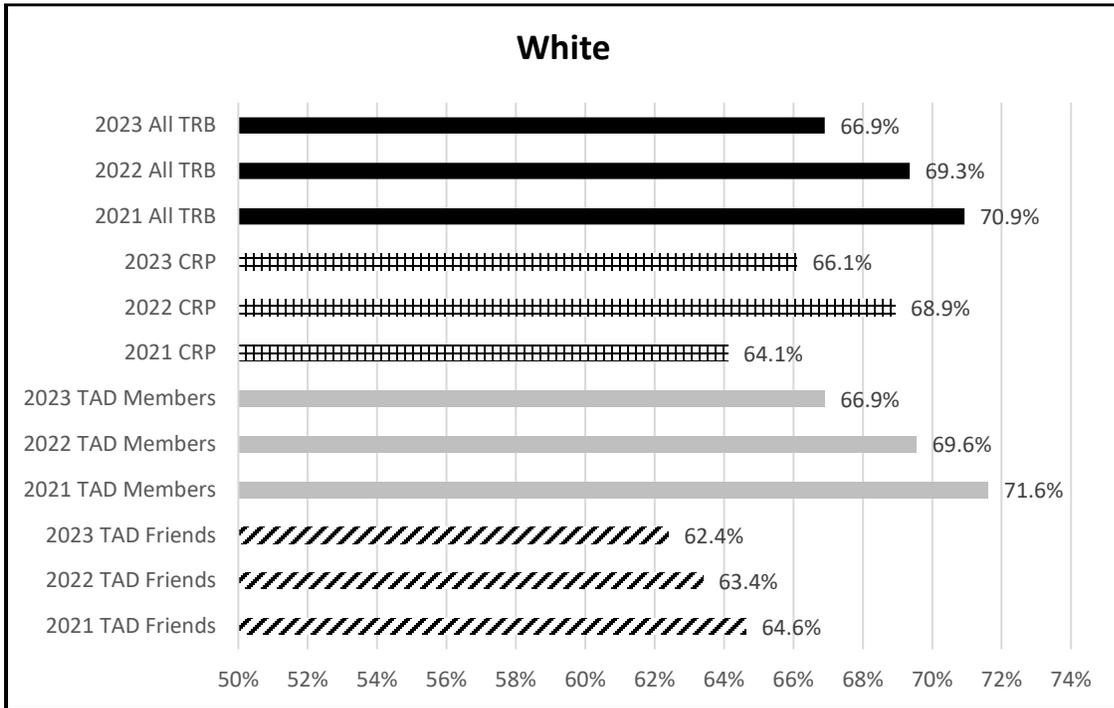
The denominator for reporting volunteers’ demographic data is those who have both updated and reported their demographic information—not the total number of volunteers. In addition, if someone volunteers on multiple panels or committees, they are counted only once. The tables below show the total number of unique volunteers and the number who reported their race or ethnicity, broken out by the composition of friends and members on TAD committees, CRP panels, and all TRB volunteers (i.e., those on CRP panels and TAD committees combined) for 2021-2023. The data are broken out by six categories for race/ethnicity, by gender, and for chairs in TAD and CRP. (Data on CAAS committee members will be available in the next report.)

	TAD Friends			TAD Members			CRP			All TRB		
	2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023
N Unique Volunteers	17143	18991	18711	4623	4419	4171	3166	3425	3351	7009	7024	6740
N Reporting Race/Ethnicity	4120	8047	11180	2114	3248	3549	1084	2028	2636	2621	4574	5462
Response Rate	24%	42.4%	59.8%	45.7%	73.5%	85%	34.2%	59.2%	78.7%	37.4%	65%	81%









TAD Committee Leadership

Data on committee leadership were also examined for TAD for those who are in the role of chair or co-chair for its sections, groups, councils, and standing committees.

	All Chairs	Providing Race/Ethnicity	Providing Gender	Women	All Minorities	Black/Hispanic/ Native American
2021 N	234	217	218	93	29	13
2021%		92.7%	93.2%	42.7%	13.4%	6.0%
2022 N	228	209	223	100	31	18
2022%		91.7%	97.8%	44.8%	14.8%	8.6%
2023 N	223	207	223	100	41	18
2023 %		92.8%	100%	44.8%	19.8%	8.7%

CRP Committee Leadership

Data on committee leadership were also examined for CRP for those who are in the role of chair or co-chair for its panels.

	All Chairs	Providing Race/Ethnicity	Providing Gender	Women	All Minorities	Black/Hispanic/ Native American
2021 N	421	296	306	117	71	39
2021%		70.3%	72.7%	38.2%	24%	13.2%
2022 N	492	334	342	132	90	51
2022%		67.9%	69.5%	38.6%	26.9%	15.3%
2023 N	420	348	362	148	95	57
2023 %		82.9%	86.2%	40.9%	27.3%	16.4%

Critical Issues in Transportation for 2024 and Beyond

Susan Shaheen
**Chair, Subcommittee on Planning
and Policy Review**

January 11, 2024

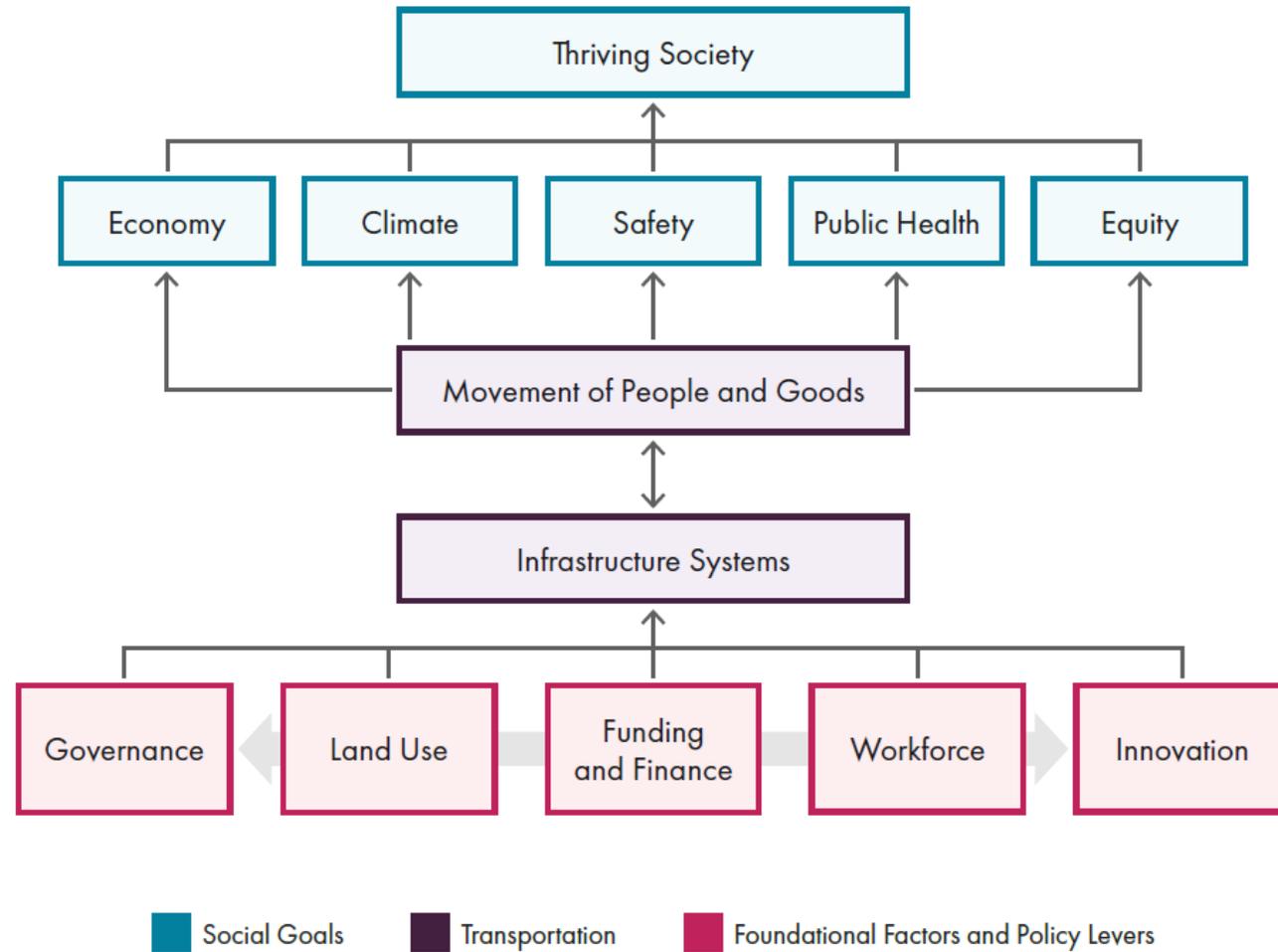
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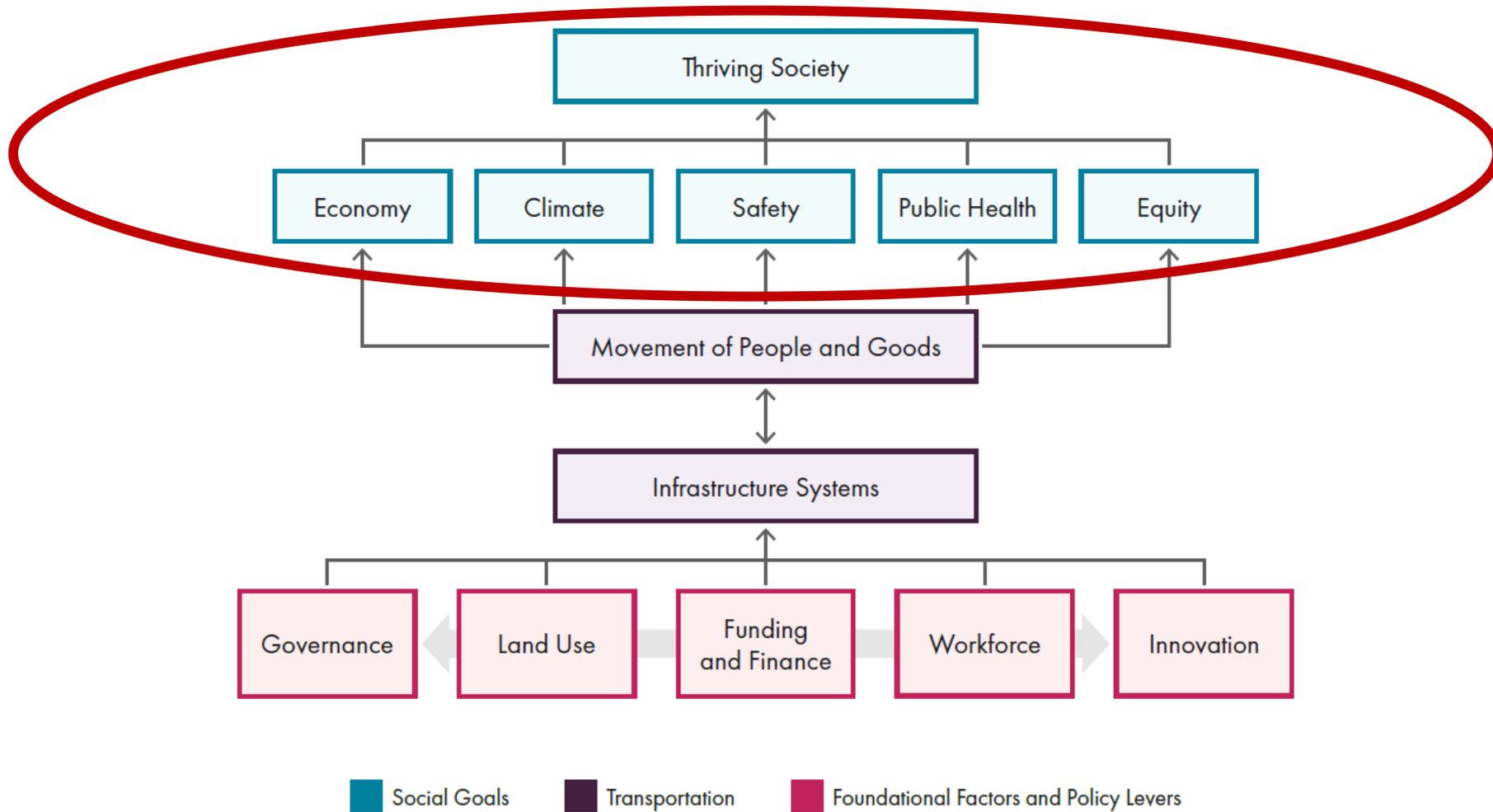
TRB TRANSPORTATION
RESEARCH BOARD

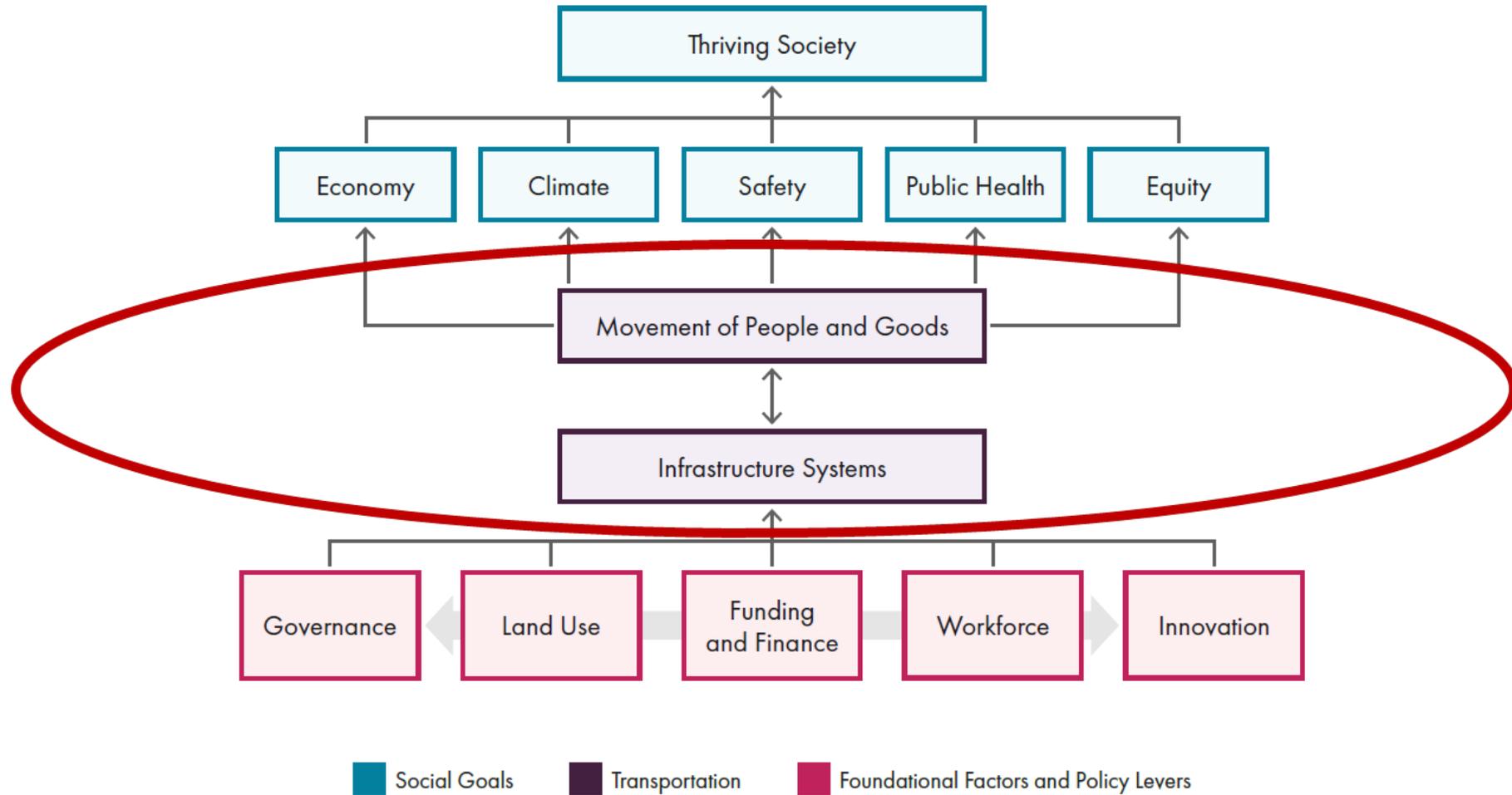


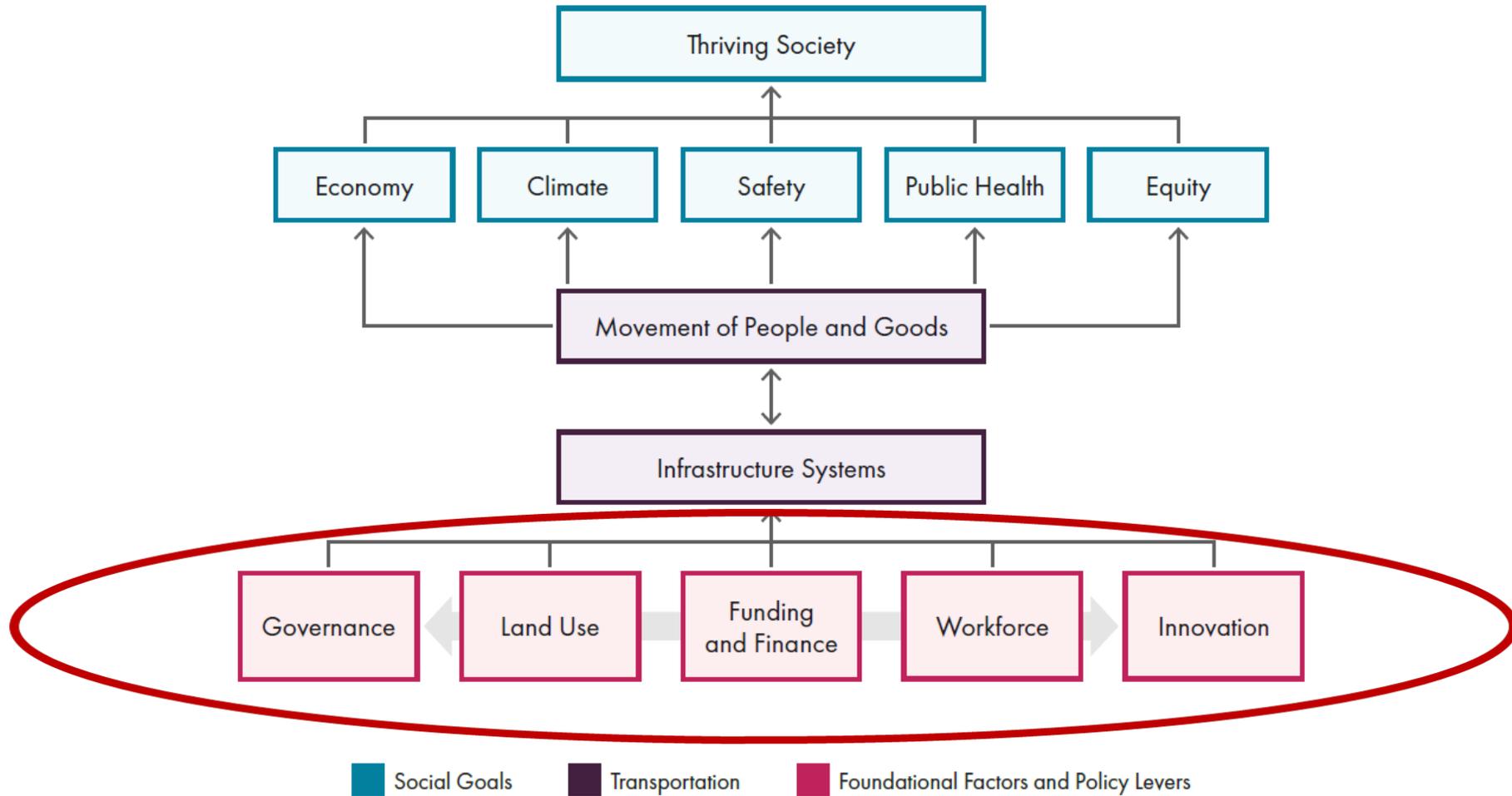
**NATIONAL
ACADEMIES** *Sciences
Engineering
Medicine*

TRB TRANSPORTATION
RESEARCH BOARD









Movement of People

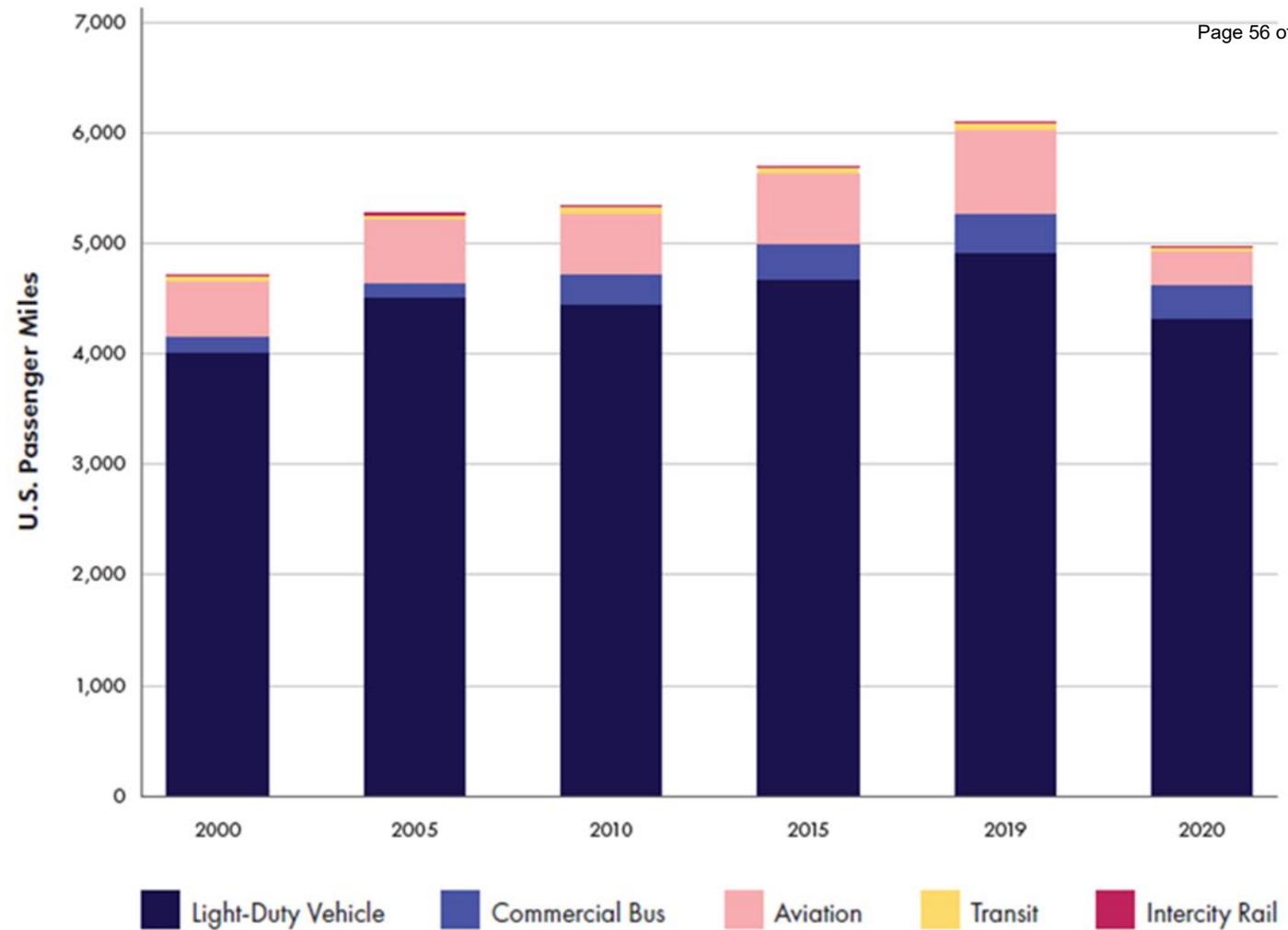


FIGURE 2 Passenger miles of travel by mode (billions).

SOURCE: Bureau of Transportation Statistics, U.S. Department of Transportation. 2017. Table 1-40: U.S. Passenger-Miles (Millions). https://www.bts.gov/archive/publications/national_transportation_statistics/table_01_40.

Building and Sustaining a Strong Competitive Economy

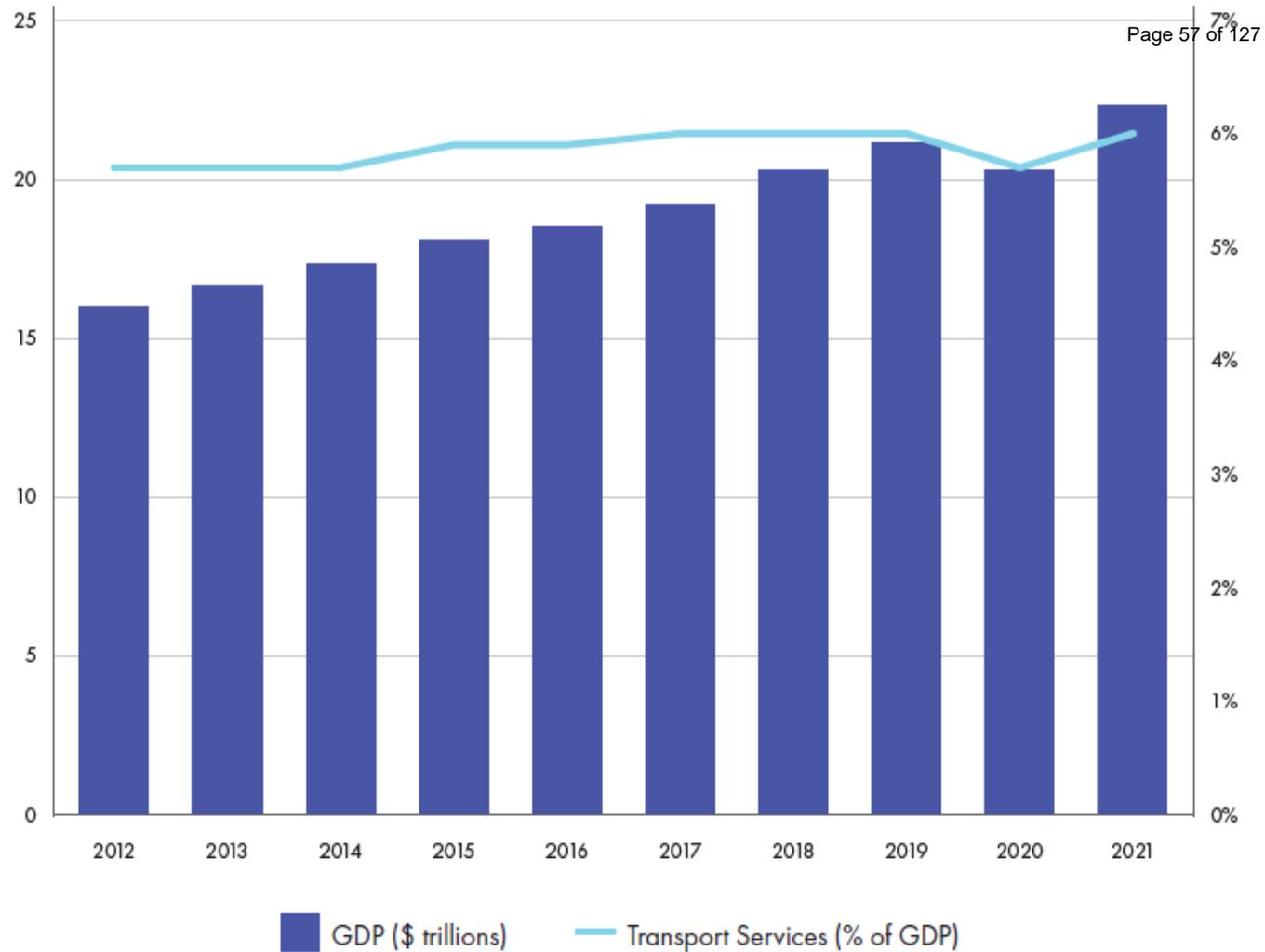


FIGURE 5 For-hire, in-house, and household transportation services cost share of total GDP (current dollars).

SOURCE: Bureau of Transportation Statistics, U.S. Department of Transportation. In-House Transportation and Household Transportation. <https://data.bts.gov/stories/smrm-36nv#in-house-transportation-and-household-transportation>.

Movement of Goods

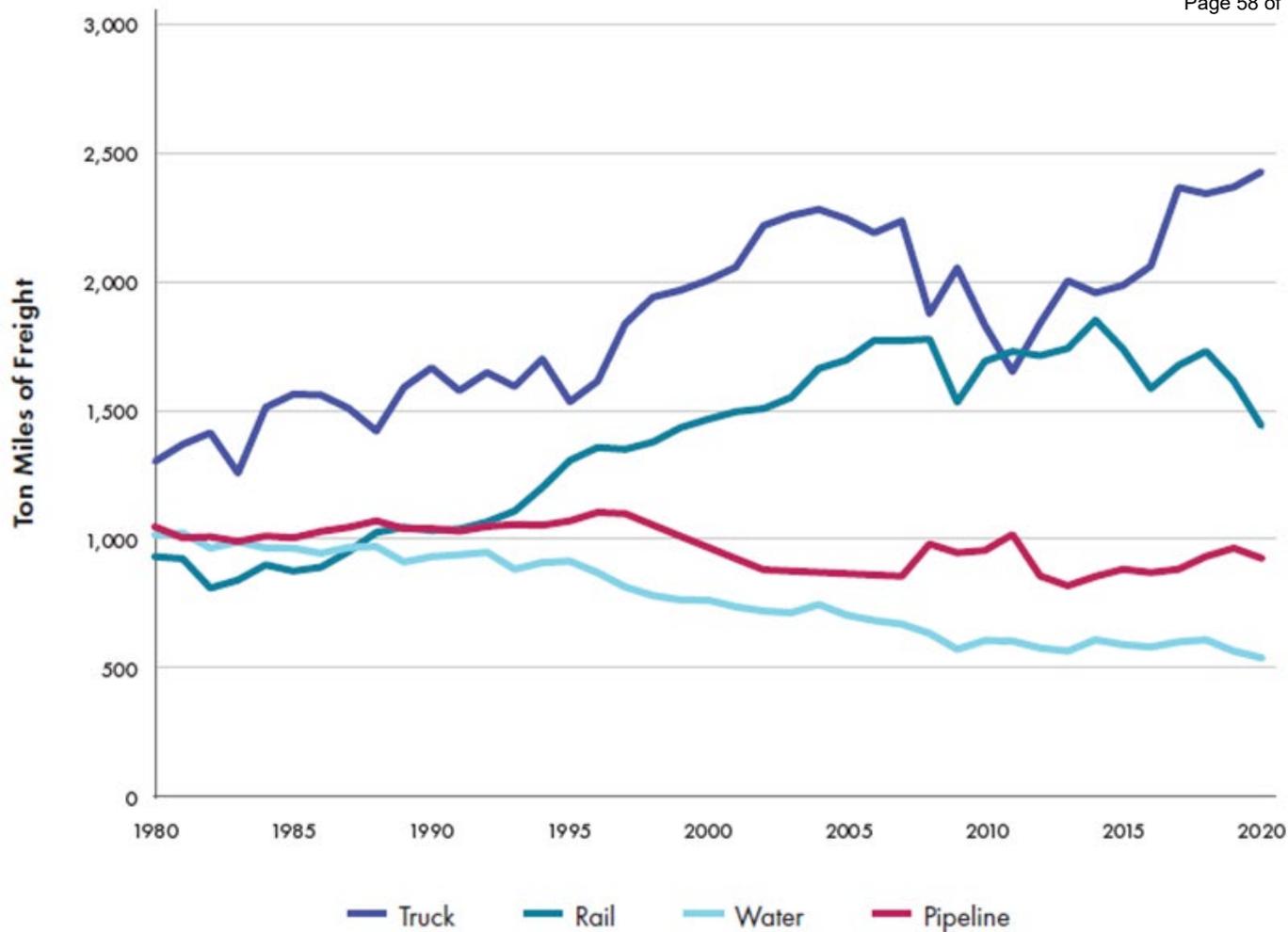


FIGURE 3 U.S. ton miles of freight by mode (billions).

SOURCE: Bureau of Transportation Statistics, U.S. Department of Transportation. U.S. Ton-Miles of Freight. <https://www.bts.gov/content/us-ton-miles-freight>.

Transportation Productivity

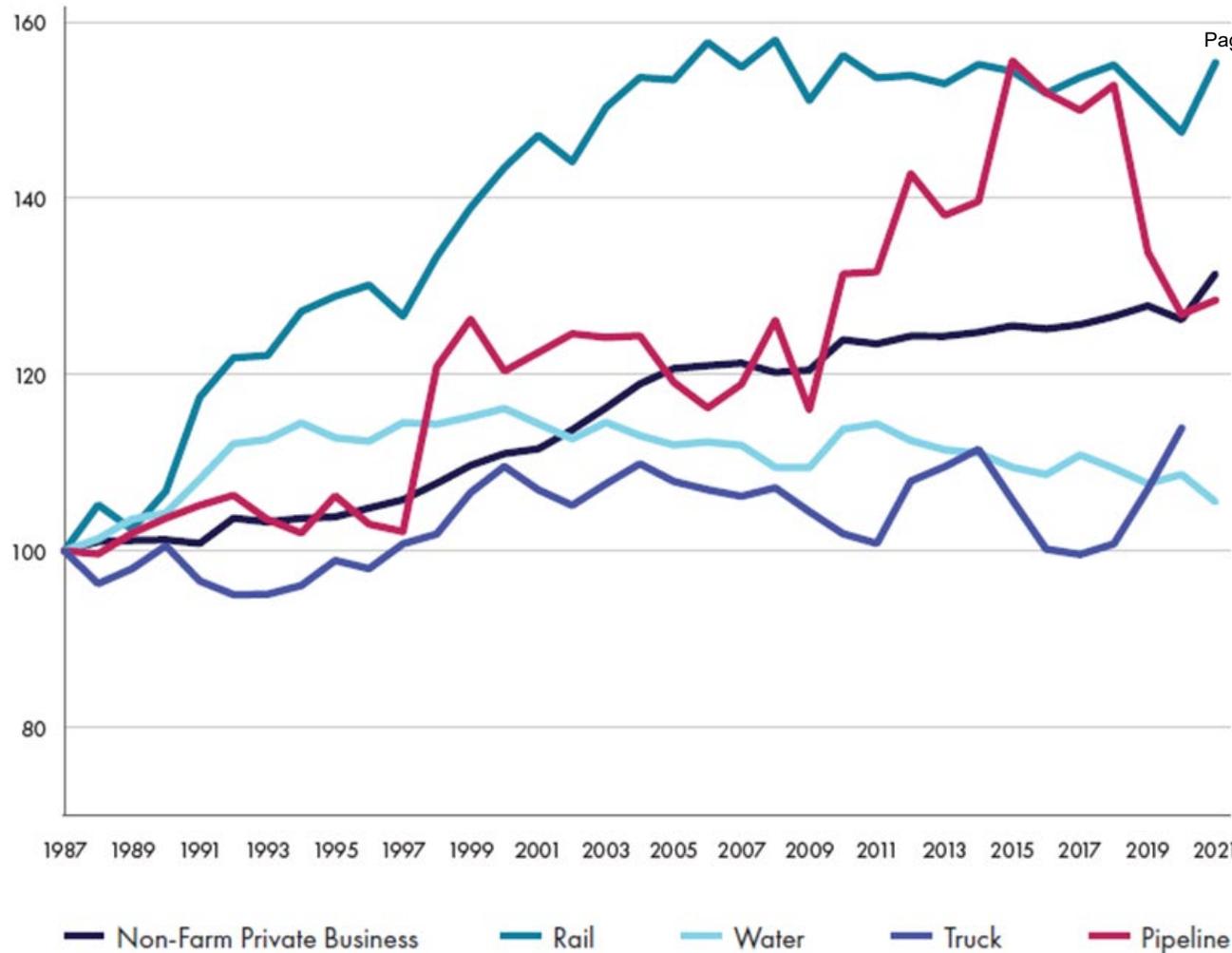


FIGURE 7 Total factor productivity: all private business and freight modes.

NOTE: 1987 = 100.

SOURCE: Bureau of Labor Statistics. Annual Total Factor Productivity and Related Measures for Major Industries, October 18, 2022. <https://www.bls.gov/productivity/tables>.



**NATIONAL
ACADEMIES** *Sciences
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Medicine*

TRB TRANSPORTATION
RESEARCH BOARD

Critical Issues in Transportation for 2024 and Beyond



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TRB TRANSPORTATION
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Diversity, Equity, and Inclusion (DE&I) Strategic Plan Update Transportation Research Board

Mission

TRB's Diversity, Equity, and Inclusion (DE&I) Initiative's mission is to create and foster an inclusive environment that leads to increased diversity of participants in TRB and equitable outcomes for the transportation system.

Background

The TRB Executive Committee adopted an Inclusion and Diversity Strategic Plan in January 2018. The plan was updated to include equity in fall 2020. The TRB Special Committee on DE&I has been charged with monitoring implementation of the Plan and proposing revisions as appropriate. The Committee meets quarterly, monitors progress on the plan's strategies and action items, and reports to the TRB Division Committee and the TRB Executive Committee. The committee's membership is representative of TRB's major oversight committees and stakeholders and every effort is made to ensure racial, ethnic, gender, and ability diversity of the committee's membership. The TRB DE&I Strategic Plan provides a roadmap and explanation for achieving this mission.

Membership

The Special Committee chair is Tanisha Hall, Fairpointe Planning, and the members are as follows:

- Gloria Bender, TransSolutions
- Herold Humphrey, MARTA
- George (Avery) Grimes, Patriot Rail Company: Chair of TRB's TAC
- Joey Goldman, Kearns & West
- Chris Hendrickson, Carnegie Mellon University: Chair of the TRB Division Committee, Member of the Executive Committee and SPPR
- Hyun-A Park, Spy Pond Partners
- Kevin Pete, Texas Department of Transportation

Working Definitions

This plan uses the following definitions for diversity, inclusion, and equity:

- Diversity is defined as the broad spectrum of experiences, cultures, and physical attributes within a community, including but not limited to race or ancestry, national origin, religion, age, ability, gender, gender identity or expression, sexual orientation, socioeconomic status, or perspective.
- Inclusion means that all individuals and groups are welcomed, valued, respected, and supported equally as they contribute to the mission and success of a community.
- Equity is the absence of barriers, biases, and obstacles that impede equal access, fair treatment, and opportunity by all members of a community.

Updates on Strategies and Associated Action Items

The following are the seven strategies and associated actions that have been accomplished or are underway in TRB between the period of June 1-December 31, 2023:

Strategy 1

Ensure equitable opportunities for all involved in TRB and implement strategies and resources that are used to recruit, welcome, and actively involve more diverse committee and panel members.

- Data trends from the past three years show incremental progress in diversifying committees and panels and their chairs, especially among groups that have been historically underrepresented. For instance, among chairs in TAD, 44% are women and 9% are American Indian/Native American, African American/Black, or Hispanic. In CRP, 41% are women and 16.5% are American Indian/Native American, African American/Black, Hispanic, or Native Hawaiian/Other Pacific Islander.
- Both staff and volunteer leadership continue to prioritize diversity when recruiting new members of committees and panels.
- For the third year, the Technical Activities Council gave out Blue Ribbon Awards for Diversity. This year's winners are the Standing Committees on Highway Traffic Monitoring, Freight Transportation Planning and Logistics, and Design and Rehabilitation of Asphalt Pavements.

Strategy 2

Engage with transportation-related organizations and other appropriate organizations that serve groups that are underrepresented in TRB (e.g., minority groups, women, people with disabilities) to increase their members' awareness of and participation in TRB.

- Through TRB's MOUs with Latinos In Transit (LIT), the Conference of Minority Transportation Officials (COMTO), WTS, as well as its Letter of Intent with the Airport Minority Advisory Council (AMAC), the following efforts have taken place:
 - Victoria Sheehan spoke at the COMTO Annual Meeting in July, COMTO's CEO is a member of the TCRP Oversight and Project Selection Commission, COMTO distributed calls for nominations for CRP projects, and COMTO sponsored the Welcome Reception for the Minority Student Fellows at the Annual Meeting.
 - COMTO continues communication with TCRP Ambassadors through monthly check-ins and quarterly meetings with all ambassadors and APTA staff. The Ambassadors attended industry conferences and engaged with over 200 attendees. COMTO will begin the TCRP Ambassador recruitment campaign in December, which will run through March 2024.
 - TRB hosted a transportation planning equity panel at LIT's annual Leadership Summit in September, LIT distributed calls for nominations for CRP projects, and LIT is participating in the planning of TRB's 2024 Conference on Advancing Transportation Equity.
 - AMAC distributed calls for nominations for ACRP projects, participated in the Careers-in-Motion Networking Fair, and TRB conducted a webinar for AMAC members to provide an overview of ACRP and give tips on submitting a successful proposal for selection of an ACRP contract.
- During the Annual Meeting, Sheehan renewed the MOU with the Council of University Transportation Centers to ensure continued collaboration with the organization.
- In addition to TRB's MOU partners, TRB works with other organizations, including Historically Black Colleges and Universities, Intertribal Transportation Association, National Society of Black Engineers, Society of Women Engineers, National Rural Transit Assistance Program, and the Society of Hispanic Professional Engineers to recruit diverse CRP panel members and encourage participation in standing committees.

Strategy 3

Create opportunities for everyone to make connections and feel included, welcomed, and able to participate equitably at the Annual Meeting, specialty conferences, and committee meetings.

- TAD staff are implementing stricter committee rotation policies to ensure that new members will rotate on to committees, which will likely increase diversity of committees.

- Activities during the Annual Meeting that engage students and young professionals include the New Attendee Engagement Session along with the Young Member Coordinating Council's (YMCC's) Three-Minute Thesis Competition, Early Academic Careers workshop, a forum with presentations on innovative sustainability and resilience research or practices, and its subcommittee meetings focused on topics of interest of students and young professionals.
- TRB staff continued work with FHWA Dwight David Eisenhower Transportation Fellowship Program staff to engage its 200+ fellows in the Annual Meeting and in standing committees' meetings by matching fellows with the committees most closely aligned with their professional and academic interests.
- Mentoring initiatives: TRB staff/volunteers again matched Minority Student Fellows with Annual Meeting mentors. Other mentoring initiatives, not necessarily connected to the Annual Meeting, are also ongoing and focus on students and young professionals.

Strategy 4

Achieve greater diversity among TRB contractors and their lead staff, whether they are research consultants or suppliers.

- The CRPs continue to ask organizations submitting proposals about how their team would bring a diverse and inclusive approach to their research, and policies or programs that they have in place to promote diversity and inclusion.
- Of the 89 contracts awarded through CRP, 6 prime contracts and 31 subcontracts went to businesses identified in the proposals as Disadvantaged Business Enterprises.

Strategy 5

Identify and minimize barriers to achieving greater TRB staff diversity and assure opportunities for career advancement for diverse staff.

- The National Academies' Director of Workforce Diversity and Inclusion is standing up its third employee resource group (ERG) for early career professionals. An ERG is a staff-led group of people who share any dimension of diversity.
- NASEM and TRB HR are continuing to increase staff diversity by advertising NASEM job opportunities in publications that target diverse population, piloting a program for interns from underrepresented populations, and hosting dialogues with staff around DE&I topics.

Strategy 6

Ensure that TRB's programmatic activities (e.g., convening and other technical activities, consensus activities, and research projects) address diversity, equity, and inclusion and ensure results are disseminated.

- A sampling of CRP projects in progress that address DE&I-related topics include the following:
 - Improving Airport Organizational Practices to Enhance ACDBE/DBE Participation (ACRP)
 - Incorporating Environmental Justice and Equity Principles and Data into Airport Decision-Making (ACRP)
 - Assessing and Mitigating Racial Disparities in the Enforcement of Pedestrian, Bicycle, and Micromobility Traffic-Related Laws (BTSCR)
 - Virtual Public Involvement: A Manual for Effective, Equitable, and Efficient Practices for Transportation Agencies: Phase 2 (NCHRP)
 - Improving Public Transportation in Rural Areas and Tribal Communities (NCHRP)

- Tactile Wayfinding in Transportation Settings for Travelers Who Are Blind or Visually Impaired (TCRP)
- Accessible Public Bus and Rail Passenger Information for Riders with Vision Disabilities (TCRP)
- A sampling of recently published reports and projects from the CRPs that address DE&I-related topics include the following:
 - [Inclusive Virtual-public-involvement for Public Transit](#) (TCRP)
 - [Homelessness: A Guide for Public Transportation](#) (TCRP)
 - [Transportation for People with Disabilities and Older Adults During COVID-19: Lessons for Emergency Response](#) (TCRP)
 - [Access to Jobs, Economic Opportunities, and Education in Rural Areas](#) (NCHRP)
 - [Highway Safety Behavioral Strategies for Rural and Tribal Areas: A Guide](#) (BTSCR)
- TRB's website continues to host DE&I-related [snap searches](#) on accessibility, social equity and underserved populations, and tribal transportation. These searches include all recent reports, projects, and other resources in those areas.
- In December, the Committee on Data, Metrics, and Analytic Methods for Assessing Equity Impacts of Surface Transportation Funding Programs released its report, [Elevating Equity in Transportation Decision Making: Recommendations for Federal Competitive Grant Programs](#).
- The 15th cohort of the Minority Students Fellows Program is welcoming 19 fellows from 14 schools. For the third year in a row, TRB hosted a scholarship competition and awarded sponsorship to 4 alumni of the program to again attend the TRB Annual Meeting.
- In August, ACRP awarded 11 contracts to recipients through its Graduate Award Program, which provides a \$12,000 stipend and access to a panel of experts to carry out applied research on airport and aviation system issues and then present at the Annual Meeting.
- In July, ACRP announced 4 winning teams of its University Design Competition, a national competition for university students, awards groups that present the most viable solutions to issues related to airports and the National Airspace System. The teams presented their winning solutions to TRB and FAA representatives at the National Academies in July.
- TRB's DE&I-related webinars were: [Advancing Equity in Travel Experiences](#), [Services for ADA Paratransit Riders](#), [Health Impacts and Public Transit Equity](#), [Airport Programs to Combat Human Trafficking](#), [Systematic Inequality in the Airport Industry](#), [Enhancing Wheelchair Accessibility on Commercial Service Aircraft](#), [Successful Environmental Justice Planning](#), [Community-based and Equitable Transportation Response in Disasters](#), and [Getting the Facts Straight about the DBE Program](#).
- In July 2024, TRB will host the [2nd Conference on Advancing Transportation Equity](#) in Baltimore with the theme of "Reaching Across the Divide: Research, Community Implementation, and Shared Experiences."
- The 2024 Annual Meeting Equity Curated Program highlights 45 sessions dealing with equity issues. In all, more than 80 meetings, workshops, and sessions address equity issues in transportation.

Strategy 7

Improve existing data, information, and communication mechanisms to support all strategies.

- TRB Communications staff and TAD standing committees highlighted transportation issues relative to nationally recognized diversity months: LGBTQ Pride Month (June), Hispanic Heritage Month (September), and Native American Heritage Month (November).

- In addition, on TRB's social media accounts, communications staff highlighted transportation accessibility on the anniversary of the American with Disabilities Act and showcased quotes from diverse webinar presenters in *TRB Weekly*.
- The TRB Executive Committee's Subcommittee on Planning and Policy Review and TRB staff completed the *Critical Issues 2023* document which includes DE&I-related issues woven into the document's discussions about safety, public health, the environment, workforce needs, and more.
- The Committee on Accessible Transportation and Mobility and the Committee on Rural, Intercity Bus, and Specialized Transportation completed *TR News* theme issue 346: [Addressing Transportation and Accessibility for All](#).
- TRB's Communications Department released or updated the following articles on its blog:
 - [Strengthening Tribal Transportation](#)
 - [Making Travel More Equitable for People with Disabilities](#)
 - [Improving Health Care through Transportation | National Academies](#)
 - [TRB Minority Student Fellows Program Strengthens the Transportation Community](#)

Update on TRB Minority Student Fellows Program

The TRB Minority Student Fellows Program, now in its fifteenth year, promotes minority participation in transportation and TRB. This year, the program welcomes 19 students from 14 institutions. The program supports students from historically black colleges and universities, Hispanic-serving institutions, and American Indian/Alaska Native-serving institutions to present their research at and participate in all aspects of the TRB Annual Meeting. Fellows will be presenting their research together in poster session 3108, on January 9th from 10:15AM-12PM. Information about their presentations is provided below.

The participating institutions this year are Arizona State University; California State Polytechnic University, Pomona; California State University—Long Beach; California State University—Los Angeles; City College of New York; Florida A&M University; Florida International University; North Carolina A&T University; North Carolina Central University; Northern Arizona University; Tennessee State University; University of Arizona; University of Maryland—Eastern Shore; University of New Mexico; and University of Puerto Rico at Mayagüez.

This year's cohort of 19 students represent a variety of transportation disciplines and include both undergraduate and graduate students. Students come from not only civil engineering, but also from construction engineering, mechanical engineering, electrical engineering, computer science, and geography. In addition, four students from the 2023 cohort were awarded Alumni Scholarships to attend the 2024 Annual Meeting.

The largest source of program funding for the students is from FHWA's Dwight David Eisenhower Transportation Fellowship Program (DDETFP). Other key sources of funding are from organizations that earmark money for students at particular schools. Those organizations are the Arizona Department of Transportation; Cambridge Systematics; North Carolina Department of Transportation; Tennessee Department of Transportation; the U.S. Army Corps of Engineers; and VHB. In addition, the Conference of Minority Transportation Officials (COMTO) is supporting the Welcome Reception that TRB hosts for the Fellows. The final source of funding is individual contributions—most from individual Annual Meeting attendees who donate when registering.

In addition to presenting their research, events the fellows will participate in during the Annual Meeting include the Careers in Motion Networking Fair, the Engagement Session on Sunday, a networking luncheon, standing committee meetings, the Chair's Plenary Session, and DDETFP research presentations.

The names, schools, and titles of the fellows' research presentations are as follows:

Leandro X. Addarich from the University of Puerto Rico at Mayagüez: Characterization of Coarse Aggregate Properties for Asphalt Concrete With Alternative Test Methods. (Poster A293)

Joyce Alicea-Hernandez from the University of Puerto Rico at Mayagüez: Evaluation of Initial Consumption of Stabilizer Test for Full Depth Reclamation with Portland Cement. (Poster A252)

Barron Allison from North Carolina Central University: The Development of High Quality UAS Imagery to Facilitate Transportation Planning on the North Carolina Central University Campus. (Poster A292)

Zaria Bullard from Tennessee State University: Unpacking the Determinants of Crash Frequencies at Railroad Highway Crossings in Tennessee. (Poster A280)

Brian Castaneda from California State University, Los Angeles: Review of Best Practices in Carbon Sequestration for Concrete. (Poster A272)

Darius Dale from the University of Maryland Eastern Shore: The Unintended Consequences of Electric Vehicles: A Review of Literature. (Poster A241)

Cipriano De Luna Gutierrez from the University of Arizona: An Evaluation of Red Light Running Camera and Vision Zero Implementation in the United States. (Poster A230)

Ibrahima Fall from City College of New York: The Impact of Climate-Induced Changes on Highway Bridge Reliability: A Case Study in the Northeast United States. (Poster A283)

Daniel Frolich from Florida International University: Evaluating the Potential for Micromobility in South Florida through a State Preference Survey. Poster A282)

Byron Hall from North Carolina A&T University: Mounting and Control of Autonomous Vehicles. (Poster A253)

Ty Holliday from Northern Arizona University: Cyclist-Involved Crashes and Level of Traffic Stress: Evidence from Arizona. (Poster A243)

Victoria Lanier from North Carolina A&T University: Optimizing Bike Infrastructure for Sustainable Urban Mobility: A Joint Mode and Route Choice Equilibrium Approach. (Poster A262)

Santiago Martinez Contreras from California State Polytechnic University, Pomona: Safety Evaluation of Flashing Yellow Arrows at Signalized Intersections in the City of Rancho Cucamonga. (Poster A273)

Marielly Rodriguez Gauthier from the University of Puerto Rico at Mayagüez: Monitoring of Wireless Internet Devices in Field Research using Hybrid Energy Automated Robots. (Poster A251)

Elise Russ from Tennessee State University: Roadway Incident Clearance Time Analysis Using Multivariate Cox Regression Model. (Poster A281)

Olivia Tafoya from the University of New Mexico: Pedestrian Safety and Vehicle Design: Are SUVs and Pickup Trucks to Blame?. (Poster A240)

Deyana Thomas from Florida A&M University: Has the Increase of Vehicle Automation Affected Truck Lane Restriction?. (Poster A290)

Christian Torres Ortiz from the University of Puerto Rico at Mayagüez: Temperature Analysis for Remote Wireless Sensor Networks Sustainability: Challenges and Proposed Solutions. (Poster A250)

Robert Valencia from California State University, Long Beach: Analyzing Emissions with Heavy Duty Vehicle Platooning with Route Deviations--A Study with I-710 Freeway. (Poster A242)

The four students from the 2023 cohort who were awarded TRB Minority Student Fellow Alumni Scholarships are as follows:

Anthony Forcades received his bachelor's degree in civil engineering from Florida International University in spring 2023 and is working at BCC Engineering's Miami office as a Traffic Operations Engineering Designer.

Leonor Reyes received her bachelor's degree in civil engineering from Florida International University in spring 2023 and is working at Kimley-Horn's Miami office as a Civil Analyst.

Evan Taylor is a strategy consultant for Slalom Consulting and also a Ph.D. student at Morgan State University, focusing on Transportation and Urban Infrastructure Systems. He is researching transit equity for his dissertation.

Timothy Thiergart is a senior at the University of New Mexico majoring in Global and National Security. After he graduates in May 2024, he will begin his career in the Navy as a Surface Warfare Officer.

Young Members Coordinating Council Report, January 2024

In its fourteenth year, the Young Members Coordinating Council (YMCC) has continued to develop and promote opportunities for involvement, resources, connections, and representation at all levels of TRB.

Organization: YMCC is one of four Coordinating Councils and continues to have representation from most TAC Groups, although, the level of participation varies. Some newly established Group level subcommittees began meeting at the 2021 January Annual Meeting and continue building momentum with various initiatives. Other new Group subcommittees are still under consideration.

Dr. Eleftheria (Ria) Kontou effectively assumed the YMCC Chair position on April 15, 2021, and is now in the final year of her term. Efforts are underway to identify the next Chair to effectively begin April 2024.

Under Dr. Kontou's leadership, YMCC continues to hold periodic meetings and to promote and maintain young professional involvement through efforts including:

- Technical feedback to encourage young members' TRB engagement and involvement shared with Group/Section leadership, TAC, and Executive Committee;
- Engaging other Coordinating Councils and Standing Committees to explore areas for collaboration and engagement of young professionals' perspectives;
- Organization of events and activities that encourage young members to increase their research visibility and practice their scientific communication skills & mentorship programs.

2024 Annual Meeting Activities: YMCC and the Group Subcommittees continued to be actively engaged in leading a variety of program elements during January, including:

- Meetings of Young Members Coordinating Council and the following Group-level Young Member Subcommittees: Aviation, Freight Systems/Marine, Policy and Organization, Public Transportation, Safety and Operations, Sustainability and Resilience, Transportation Infrastructure;
- YMCC organized the workshop, *Early Academic Successful Careers: Resources and Advice*, with the participation of TRB leaders.
- YMCC introductions to the TRB minority fellows and presence at the *New Attendee Engagement Session*;
- Group-level Young Member Subcommittees led or were involved in more than 16 technical sessions.

Strategic Planning: YMCC is embarking on a triennial strategic planning effort to reflect on what has been accomplished to date and ongoing activities, and to examine goals, objectives, and strategies for continuing forward. Further, YMCC will explore new collaboration opportunities with Standing Committees and Coordinating Councils, other TRB programs, and outside young transportation professional organizations, as appropriate.

Executive Committee (E0004)
Subcommittee on International Activities
Chair, Randy Iwasaki, Iwasaki Consulting Services

Report

January 2024

Background

TRB streamlined and standardized its international activities in 2017, and established a subcommittee to the Executive Committee, which was charged with advising the Executive Director on TRB's international activities, reviewing partnership agreements with key international organizations, encouraging increased international elements of some cooperative research projects with an interest to increase cross-border collaboration, and proposing a five-year strategic plan for TRB international activities. A goal is to monitor how well TRB's efforts complement and support the international interests and activities of all its sponsors and of its parent organization, the National Academies of Sciences, Engineering, and Medicine—and whether those ties can be strengthened. The subcommittee has been taking steps to determine how TRB can measure the impact of its international activities through the level of engagement efforts, adoption of practice, and learning from committees and reports, as well as provide guidance for the direction of future international activities that TRB may undertake. In January 2018, the Executive Committee approved the vision, mission, goals and objectives for a 5-year strategy of TRB's international activities. In June 2018, Dr. Mary Brooks, a former chair of the subcommittee, in collaboration with TRB staff, briefed the SPPR on indicative data that may measure effectiveness of TRB's program within international communities. In 2022 the Strategic Plan was revised to meet the future direction of TRB's international activities, with a focus on multilateral engagement and collaborative international transportation research.

UPDATE OF TRB INTERNATIONAL ACTIVITIES IN 2023

Executive Subcommittee on International Activities:

In February 2023, the Subcommittee established two working groups –

1. Working Group to develop guidance for the subcommittee structure and function. Volunteering on the Working Group are people with extended experience with TRB's international Activities – Katie Turnbull, Dan Sperling, King Gee, Christos Xenophonos (current cochair of the ICC) and Sam Elrahman. Working with TRB staff, the Working Group completed its work to:
 - Clarify the coordination between the Executive Subcommittee and the International Coordinating Council;
 - Limit the number of members and liaisons;
 - Retains a level of expertise and knowledge to achieve its purpose and functions implementing the Strategic Plan;
 - Limit members' number of years of service and the number of terms served; and
 - Include qualifications for members and liaisons.

The guidance is included with this report as Appendix A.

2. Working Group to establish evaluation criteria for International Agreements. Volunteering on the working group are people with experience working in and sustaining collaborative,

non-contractual partnerships – volunteers included Katie Turnbull, Dan Sperling, King Gee, Chris Hendrickson and Stephen Kern. The Working Group completed its work. The Working Group began by developing principles that have guided TRB’s international activities with its partners. Then they set criteria evaluating the qualities that are crucial to sustaining, sunsetting, or growing each unique partnership. The evaluation form is included with this report as Appendix B.

Technical Activities Division:

- TRB organized four conferences that pursued international participation and co-sponsored seven conferences that were hosted by partner organizations. TRB staff or volunteers participated in the planning and program of conferences, including but not limited to the following:
 - *2023 WTS International Annual Conference* (May 2023). Volunteers participated in planning the program and Victoria Sheehan spoke at the event.
 - *ITF Annual Summit 2023* (May 2023) – themed *Transport Enabling Sustainable Economies*. TRB, ECTRI, WCTRS, ITF, and the European Commission organized three Research Sessions as part of the program. Victoria Sheehan spotlighted during the Closing Plenary the importance of research to the ministerial audience and moderated one of the Research Sessions.
 - *23rd COTA International Conference of Transportation Professionals* (July 2023). In collaboration with CHTS and COTA, TRB jointly organized a three-hour session entitled *Dialogue on Smart City and Intelligent Transport between the U.S. and Chinese Scientists*. Randy Iwasaki, Chair of the TRB Executive Subcommittee on International Activities, and Bill Anderson, TRB Senior Program Officer, virtually participated in the session.
 - *XXII Pan American Congress on Transport and Logistics* (August 2023). TRB volunteers supported the planning of the conference and TRB promoted its call for papers.
 - *XXVII World Road Congress* (October 2023). In collaboration with FHWA and AASHTO, TRB supported designing and staffing of the USA Booth in the conference exhibit hall, planning three Foresight Sessions, and other activities.
- Convened by TRB, the *2023 Automated Road Transportation Symposium (ARTS)* took place on July 9-13, 2023, in San Francisco, CA. The symposium convened global thought leaders from industry, government, and research communities to collaborate on the opportunities and challenges associated with automating road transportation.
- Convened by TRB, *Transportation Resilience 2023 (TR2023)* was held November 13-15 in Washington, D.C. Attendees learned more about emerging best practices and state-of-the-art research results on how to adapt transportation networks to the potential impacts of climate change, extreme weather events, and disasters. Officials from 13 international governments participated in the conference.
- TRB held 102 webinars last year. Additionally, TRB jointly organized and co-sponsored one webinar of the Climate Change Challenges Webinar Series with the China Highway and Transportation Society (CHTS). Many of the webinars are attended by people outside of the United States.

- Standing Committee on Vehicle-Highway Automation (ACP30) formed a TRB Vehicle-Highway Automation International Working Group.
- International Coordination Council (A0020C) activities include –
 - Co-Chaired by Christos Xenophontos, RI DOT, and Caroline Almeras, ECTRI.
 - The ICC has 24 members representing 23 TRB Standing Committees.
 - Increasing engagement to include 23 liaisons representatives who work for 7 U.S., 2 European, 2 Asian, 1 South American, and 7 worldwide organization with a mission supporting international collaboration in transportation research and practice.
 - Approved an Action Plan to implement their Strategic Plan during the 2023 TRB Annual Meeting.
 - Delegating tasks to and establishing three Working Groups:
 - Working Group 1: Collaborating with Technical Committees led by Carol Schweiger, Schweiger Consulting and Matthew Daus, Windels Marx Lane & Mittendorf;
 - Working Group 2: Engaging International Experts led by Petra Mollet, APTA and Carlo Borghini, NATO; and
 - Working Group 3: Convening Activities led by Susanna Zammataro, IRF in Geneva and Evangelos Bekiaris, CERTH-HIT.
 - Keeping regular updates on ICC activities on a dedicated LinkedIn Group.
 - Held a Mid-Year Meeting during the 4th *International Symposium on Innovation Advances Towards the Future of Managing Traffic* in Vienna, Austria, June 2023.
 - 2024 TRB Annual Meeting events organized by ICC include:
 - ICC Meeting on January 9, 1:30 PM – 5:30 PM, Independence Salon D (M4);
 - Organized and planned a workshop entitled *Scaling Private Capital Mobilization and Financing for Climate Adaptation and Mitigation in Transportation*. The workshop is held on Thursday, January 11, 9:00 AM – Noon, in Room 146C of the Convention Center;
 - Co-sponsored the workshop entitled *Designing the Transportation Agency of the Future*, sponsored by the Standing Committee on Strategic Management (AJE10), held on January 7, 1:30 PM – 4:30 PM, in Room 152B of the Convention Center. This workshop is an extended session that was held at the *XXVII World Road Congress*; and
 - Co-sponsored the workshop entitled *Highway to Artificial Intelligence: Future-Proofing the Transport Sector*, sponsored by the Standing Committee on Women and Gender in Transportation (AME20), held on January 11, 9:00 AM – Noon, in Room 140 of the Convention Center.
- Co-Sponsored the CHTS Climate Change Challenge Webinar Series. The majority of the series occurred throughout 2022. The final webinar was held in March 2023: *Webinar 5: Data-Driven Economy and Safety Evaluation for Battery Electric Vehicles* – it was planned with support from AMS30 and AMS40; and AASHTO’s Sustainability Working Group.

Executive Office MOU and Letters of Intent:

- **China Highway and Transportation Society (CHTS)**
 - As mentioned above, TRB and CHTS jointly organized five webinars of the *Climate Change Challenges Webinar Series*. The final webinar was held in March 2023:

Webinar 5: Data-Driven Economy and Safety Evaluation for Battery Electric Vehicles - it was planned with support from AMS30 and AMS40; and AASHTO's Sustainability Working Group.

- Updated the MOU with TRB but since have not had a chance to renew the agreement in person.
- Held a cooperative exchange meeting with TRB staff in November 2023. Each party believes the webinar series have been successful. The meeting included suggestions on how we may work together mentoring young researchers and professionals. Another suggestion was to continue leveraging the TRB Annual Meeting and CHTS World Transport Convention to bring together experts in specific fields.
- Proposed another joint webinar series in the Spring 2023 on the topic of *Smart Cities and Advanced ITS*. Ultimately, TRB collaborated with CHTS and COTA to jointly organized a three-hour session entitled *Dialogue on Smart City and Intelligent Transport between the U.S. and Chinese Scientists*. Randy Iwasaki, Chair of the TRB Executive Subcommittee on International Activities, and Bill Anderson, TRB Senior Program Officer, virtually participated in the session.
- **Chinese Overseas Transport Association (COTA)**
 - Proposed a joint session with TRB to be held during the *XXII Pan-American Conference on Transportation and Logistic Research*
 - Convening its Winter Seminar during the TRB Annual Meeting on Sunday, January 9, 2024, and invited TRB members and staff to participate in the agenda.
 - Convened the *23rd COTA International Conference of Transportation Professionals* (July). Worked with TRB to include speakers in sessions and offer language translation services during the event.
- **European Conference of Transport Research Institutes (ECTRI)**
 - Collaborated with ITF, TRB, WCTRS, and the European Commission to organization three Research Sessions as part of the *ITF Annual Summit* program. Themed *Transport Enabling Sustainable Economies* the conference was held May 24-26, 2023, in Leipzig, Germany.
 - TRB's Young Members and International Coordinating Councils co-sponsored the *ECTRI Young Researcher Seminar 2023* in Lisbon, Portugal May 2023. TRB helped open awareness of seminar to young researchers and tutors in North American.
 - Recommended speakers for the *2024 TRB Annual Meeting* events and promoted the conference.
- **International Road Federation in Geneva (IRF in Geneva)**
 - Participated in the CHTS-TRB *Climate Change Challenges Webinar Series*.
 - Participated in the planning and program of the *4th International Symposium on Innovation Advances Towards the Future of Managing Traffic* in Vienna, Austria, June 2023.
- **International Transport Forum (ITF)**
 - Incorporated the *Pre-Research Day Workshop* content into its *Annual Summit* program. ITF, TRB, ECTRI, WCTRS and European Commission, collaborated to organization three Research Sessions for the program held May 24-26, 2023, in Leipzig, Germany. TRB managed the submission and review process of the call for abstracts. Forty (40) abstracts were received through the call for abstracts. As a result of the reviews, and coherent with the program theme, *Transport Enabling*

Sustainable Economies, the following three session topics were developed and convened:

- Accessibility and Equity
 - Financing and Mitigation
 - Sustainable Logistics
- Victoria Sheehan spotlighted during the Closing Plenary of the *ITF Annual Summit* the importance of research to the ministerial audience and moderated one of the Research Sessions.
- Collaborated in the planning of sessions and workshops through TRB's Safety and Developing Countries committees for the *2024 TRB Annual Meeting*.
- **Pan-American Society of Transport Research (PANAMSTR)**
 - After participating in the *2022 TRANSED Conference*, PANAMSTR is considering supporting the planning and convening of the conference in 2025.
 - TRB co-sponsored and promoted the *XXII Pan-American Conference on Transportation and Logistic Research*, August 2-4, 2023, Guayaquil, Ecuador.
- **The World Bank**
 - Collaborated with the ICC and TRB Committee on Transportation in Developing Countries (AME40) to organize the *2023 TRB Annual Meeting Workshop, Scaling Private Capital Mobilization and Financing for Climate Adaptation and Mitigation in Transportation*. The workshop is held on Thursday, January 11, 9:00 AM – Noon, in Room 146C of the Convention Center.
 - Participated in the planning and program of the *Transportation Resilience 2023 International Conference*, held in November at the NAS Building in Washington, DC.
 - TRB co-sponsored and promoted the *Transforming Transportation 2023* conference, held in March in Washington, DC.
 - Partnering with the TRB Minority Fellows program, The World Bank will sponsor up to two non-U.S. students.
 - Member of the Global Affiliate Program.
 - Collaborated with the TRB Standing Committee on Transportation in Developing Countries (AME40) to propose a webinar entitled *The Effects of Covid and the Unprecedented Rise in Fuel and other Commodity Prices on Transportation in Developing Countries*.
- **World Conference on Transport Research Society (WCTRS)**
 - Collaborated with ITF, TRB, ECTRI, and the European Commission to organization three Research Sessions as part of the *ITF Annual Summit* program. Themed *Transport Enabling Sustainable Economies*, the conference was held May 24-26, 2023, in Leipzig, Germany.
 - TRB co-sponsored and promoted the *2023 World Conference on Transport Research* held July 17-21, 2023, in Montreal, Canada.
 - TRB will participate in the WCTRS Steering Committee meeting on January 11, 2024, at the Convention Center, Washington, DC.
- **World Road Association (PIARC)**
 - FHWA maintains a list of 35 U.S. Representative who were members of PIARC Technical Committees and Task Forces; additionally, TRB maintained a list PIARC Technical Committee leadership members who are also volunteers on TRB

- committee, inclusive of all nationalities. Between the two lists there were 46 individuals.
- Implementing a new strategic plan that is supported by a new structure of technical committees and task forces to be in effect for the next four years. FHWA and TRB will work together to identify volunteers shared between TRB and PIARC on each other's committees.
 - TRB, FHWA, AASHTO, and ECTRI organized three Foresight Session convened at the *World Road Congress 2023*, held in October, in Prague, Czech Republic. Themes accepted include -
 - *The Transportation Administration of the Future*, organized by Christos Xenophontos, Rhode Island DOT; Cochair of TRB's ICC; Chair of PIARC's TC 1.1
 - *Electric vehicles and charging infrastructure*, King Gee, AASHTO organized this session.
 - *Enhancing Transportation Equity Globally: Outlook, challenges, and future issues*; organized by Gloria Jeff, Minnesota DOT and Cochair of TRB's Standing Committee on Equity in Transportation.
 - Victoria Sheehan participated in three *World Road Congress 2023* sessions; U.S. Representatives presented in 24 separate sessions in the program.
 - In collaboration with FHWA and AASHTO, TRB supported designing and staffing of the USA Booth in the conference exhibit hall. FHWA brought back its *Talking Transportation Sessions* held in the booth, and they were successful.
 - Victoria Sheehan participated in each PIARC Advisory Group meeting during 2023 to share TRB perspectives on specific subjects.

APPENDIX A

**STRUCTURAL FRAMEWORK
TRB EXECUTIVE SUBCOMMITTEE ON
INTERNATIONAL ACTIVITIES
DRAFTED: JUNE 08, 2023
REVISED: SEPTEMBER 19, 2023**

Introduction

TRB streamlined and standardized its international activities in 2017, and established a subcommittee to the Executive Committee, which was charged with advising the Executive Committee and Executive Director on TRB’s international activities, reviewing partnership agreements with key international organizations, encouraging increased international elements of some cooperative research projects with an interest to increase cross-border collaboration, and proposing a five-year strategic plan for TRB international activities. A goal is to monitor how well TRB’s efforts complement and support the international interests and activities of all its sponsors and of its parent organization, the National Academies of Sciences, Engineering, and Medicine—and whether those ties can be strengthened. The Executive Subcommittee has been taking steps to determine how TRB can measure the impact of its international activities through the level of engagement efforts, adoption of practice, and learning from committees and reports, as well as provide guidance for the direction of future international activities that TRB may undertake. In January 2018, the Executive Committee approved the first vision, mission, goals and objectives for a 5-year strategy of TRB’s international activities. A revised 5-year strategy was approved in January 2022.

Structural Framework for TRB Executive Subcommittee on International Activities

The TRB Executive Subcommittee on International Activities should have as many as seven (7) voting officials who serve on the TRB Executive Committee and as many as 7 non-voting Ex Officio liaisons. The Executive Subcommittee does not supersede the rules, missions, strategies and functions of the Transportation Research Board, its Executive Committee, and the National Academies of Sciences, Engineering and Medicine.

Members and Ex Officio liaisons serve three-year terms. They may serve up to two terms. At the end of the Chair’s term limit, he/she/they become the immediate past chair. The role of the immediate past chair is advisor to the Chair. The immediate past chair does not count as one of the 7 members or 7 ex officio liaisons.

In addition to satisfying NASEM and TRB mission for DEI, the Subcommittee should retain a balance of representation from the private, public, and not-for-profit sectors, which includes the academic community. Ideally the division of representation for the sectors would be as follows:

<u>Sector Types</u>	<u>Number of Representatives on the Executive Subcommittee</u>
Education and Research	3
TRB Committees and Councils	1
Transportation Agency	3
Federal Government	3
Associations	2
Private Corporation	2

The Executive Subcommittee is intended to advise the TRB Executive Committee and Executive Director on strategies to address essential international perspectives from the international transportation community with respect to the TRB Critical Issues, vision and mission. To ensure the Executive Subcommittee succeeds with its purpose and functions, it must retain a level of expertise and knowledge. Executive Committee members and Ex Officio liaisons may serve on the Executive Subcommittees for a term of three years and may be invited to serve up to two terms. The Executive Subcommittee is to coordinate and collaborate with the TRB International Coordinating Council (ICC).

The International Coordinating Council concentrates on the evolution of international perspectives, practices, and research in all facets and services of all modes of transportation. The Council brings together experts from the TRB technical committees and external organizations to promote within the Technical Activities committee structure important issues affecting the safe and secure movements of goods and people in the United States and around the globe. The primary functions of the ICC are to coordinate international activities strategies into implementation, communicate with and advise committees on practice and research, and convene experts to discuss and consider the critical and emerging issues with the scope of the Council.

Individuals nominated to serve as a Member or Ex Officio Liaison of the Executive Subcommittee should be:

- a. Recognized by his/her/their peers as a “leader or expert” within his/her/their respective sectors;
- b. A Member of the Executive Committee to serve as a voting Member of the Subcommittee; an official or member of an organization that is an international partner, member of the ICC or another TRB committee to serve as an Ex Officio Liaison;
- c. An effective communicator and hold a position of respectability within their organization or affiliation;
- d. Free of conflicts of interest and bias associated with TRB international activities and interests; and
- e. Active in one of the fields of global transportation practice and/or research.

As a Member or Ex Officio Liaison of the Executive Subcommittee should be willing to -

- a. Advise the Executive Committee and Executive Director on TRB international activities;
- b. Support the growth of TRB’s influence globally;
- c. Collaborate on the activities of the International Coordinating Council;
- d. Evaluate the quantitative and qualitative impacts TRB’s international activities have on research and practice, TRB programs and resources, TRB Critical Issues, and TRB and NASEM missions;
- e. Support drafting an annual report of the TRB international activities;
- f. And able to attend meetings of the Executive Subcommittee during annual meeting and other virtual meets throughout the year; and
- g. Share relevant TRB and international partner information with members of his/her/their organization.

APPENDIX B: International Agreement Evaluation Form

Collaborative Relationship				
	Emerging Partnership	Developing Partnership	Corroborated Partnership	
Shared Vision & Mission	<input type="radio"/> Each organization discussed shared needs and in-common interests (activities, themes, communities, and objectives) that would be addressed in an agreement or informal partnership	<input type="radio"/> Partners share mutual vision and mission for cooperation	<input type="radio"/> Partners have realized benefits and all parties have leveraged them in communications, events, and programs	The first step of agreement drafting would be a meeting of the partners to discuss the value, need, and objectives of a partnership. The first criteria is to validate the need for an assessment of the partnership. The second and third criteria clarify the opportunity for advancing the agreement.
	<input type="radio"/> An annual program of activities (action plan) has been approved aligned with the Strategic Plan for International Activities	<input type="radio"/> Each organization has identified resources, challenges, and leadership to accomplish activities	<input type="radio"/> Partners evaluate cooperation to discuss goals and make adjustments, retain level of engagement, or enhance activities of the agreement	
Roles & Responsibilities	<input type="radio"/> Following enacting an agreement the lack of a shared vision or mission inhibits accomplishing activities. Or staff and volunteers have not engaged in collaboration or activities.	<input type="radio"/> Partners have achieved objectives and begin to notice benefits	<input type="radio"/> The stakeholders of each partner embrace the cooperative goals, objectives, and activities; and demonstrate and interest in supporting the cooperation	These determine whether the agreement is just initiating, activities have occurred, or partners identify future needs through the agreement.
	<input type="radio"/> Partners understand core function and cooperation of the partnership, but have not agreed to share roles and responsibilities to achieve activities	<input type="radio"/> Essential contributor's (staff or volunteers/members) roles and responsibilities have been identified and general project tasks have been outlined	<input type="radio"/> The volunteer/membership leadership of each partner meets on a regular basis to achieve mutual goals and objectives of the partnership	
Stakeholder and Member Involvement	<input type="radio"/> Partner roles and responsibilities are inconsistent and one-sided; division of work and benefit is inequitable	<input type="radio"/> Roles and responsibilities of each partner are equitable, documented, and agreed to by both parties	<input type="radio"/> Contributor's (staff or volunteers/members) roles and responsibilities are fulfilled effectively and efficiently	Evaluating the effectiveness and efficiency of roles and responsibilities to achieve objectives and goals related to strategies.
	<input type="radio"/> Contributors of both partners meet with stakeholders and established metrics for performance	<input type="radio"/> Both partners have demonstrated expertise and responsibility for their tasks	<input type="radio"/> Partners work well together in advance of project launch with full involvement of contributors and stakeholders	
Solidarity	<input type="radio"/> Staff of each partner are identifying stakeholders and/or volunteers/members to engage	<input type="radio"/> Meeting have been held with stakeholders and/or volunteers/members to discuss the partnership and activities	<input type="radio"/> All essential roles, responsibilities, resources, metrics, and goals are maintained and documented in partnership agreement or action plans and shared with each partner	Evaluating whether metrics and expectations have been set and assessed.
	<input type="radio"/> Stakeholders and/or volunteers/members have been identified and connected but have not engaged in the partnership	<input type="radio"/> Some contributors (staff or volunteers/members) work with stakeholders on some activities of the partnership and action plan	<input type="radio"/> Partnership is supported by stakeholders and volunteers/members in volunteer groups and perhaps other divisions in MASEM	
Solidarity	<input type="radio"/> Stakeholders and/or volunteers/members are taking on key elements of the partnership and action plan	<input type="radio"/> Stakeholders and contributors collaborate on the planning and implementation of partnership and action plan	<input type="radio"/> With support of additional stakeholders and volunteers/members additional opportunities beyond the scope of the agreement are intentionally and routinely proposed	This criteria evaluates the types of organizations and experts supporting the agreement and activities.
	<input type="radio"/> Mutual public respect has been established	<input type="radio"/> Partners support and promote each other's activities	<input type="radio"/> Stakeholders and/or volunteers/members consistently work to gain institutional recognition and communicate institutional benefits of the partnership publicly	
<input type="radio"/> Evaluating how well each partner supports other in an effort to achieve their mission and vision.				



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Marine Board of the Transportation Research Board

TRB Executive Committee Meeting January 2024

Dr. Craig Philip, NAE, Chair
Dr. Sandra Knight, Vice Chair
Scott Brotemarkle, Marine Board Program Director
Tess Austin, Marine Board Staff

1

Marine Board of the TRB

Formed in 1965 to serve the national interest by providing a forum for the identification of research and development needs and information exchange concerning technologies, policies, economics, the environment, and other issues affecting the marine transportation system and offshore industries.

Core Sponsors of the Marine Board

- U.S. Coast Guard
- U.S. Army Corps of Engineers*
- National Oceanic and Atmospheric Administration/National Ocean Service
- Bureau of Safety and Environmental Enforcement
- Maritime Administration
- Office of Naval Research/U.S. Navy
- Supervisor of Salvage & Diving, Naval Sea Systems Command/U.S. Navy

*denotes TRB Core Sponsor in addition to Marine Board Sponsor

2

Marine Board Areas of Interest

- Emerging Technologies and Potential Impacts on Maritime
- Environmental Justice and Social Equity in the Marine Transportation System
- Future of the Maritime Supply Chain
- Maritime Resilience
- Towards Zero Emissions Shipping
- U.S. Offshore Wind Energy Development

Crosscutting Elements

- Human and Intellectual Capital / Workforce Diversity Equity, and Inclusion
- Safety Management, Culture and Inspections
- Cyber in the Marine Transportation System

3

Marine Board Fall 2023 Meeting November 13-14, Keck Center, Washington, D.C.

Focus sessions that directly address sponsor agency research areas raised in leadership meetings

- BSEE and MARAD: Offshore Wind Workforce Pipeline – U.S. Mariners and Unionized Electrical Workers
- **Office of Naval Research: U.S. Shipbuilding Capacity***
- NOAA: How NOAA can Support Planning for Ports in Preparation for Extreme Weather and Climate Change at Various Time Scales
- US Coast Guard: Nuclear Propulsion as a Viable Zero Emission Option
- USACE: Remote Operations and Automation of Navigation Lock Infrastructure
- **US Navy Supervisor of Salvage: Availability Of Ocean-Going Salvage Tugs Within U.S. Waters***

* Potential NASEM consensus study topics under discussion with sponsors as a result of these sessions

4

Marine Board Spring 2024 Meeting April 16-18, New Orleans, LA

Panel sessions hosted at University of New Orleans

Topical focus areas:

- Lower Mississippi River coastal and port resilience/climate change challenges including dredging, navigation, flood control systems, saltwater intrusion,
- Maritime decarbonization strategies in the Gulf context
- Convergence of ocean, coastal and inland waterways shipping

Possible Technical Tours:

- US Army Corps of Engineers – Tour of infrastructure associated with the Hurricane and Storm Damage Risk Reduction System (HSDRRS)
- Vessel tour of port facilities including a mid-stream transfer operation facilitating ocean vessel transloading on the Lower Mississippi (between deep draft ocean-going vessels and river barges)
- Visit to The Water Institute in Baton Rouge, LA - research organization that works across disciplines to advance science and develop integrated methods used to solve complex environmental and societal challenges in the Gulf region.



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TRB TRANSPORTATION RESEARCH BOARD

TRB Strategic Communications Update for the Executive Committee

January 10-11, 2024
Paul Mackie, pmackie@nas.edu

NOVEMBER 2022 UPDATE

1

Through collaboration with OCCO (central Academies communications), our science of communications results has improved over the past year.

Major different ways people find TRB on the web

Referral: Traffic from a site other than a major search engine

Direct: Traffic with no source or data

Organic: Traffic from search engine results that is earned, not paid

Social: Traffic from a social network, such as Facebook, LinkedIn, or X

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2

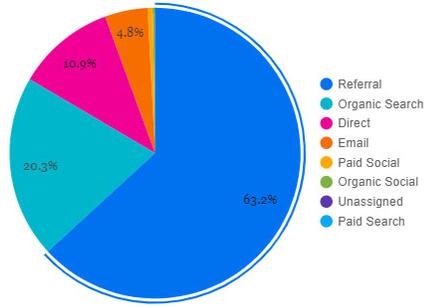
2

UNIFIED WEB and NAP PAGES

- These are where people are finding out about what TRB is, what we do, how they can get involved, and this is where they are almost exclusively finding our research and resources.

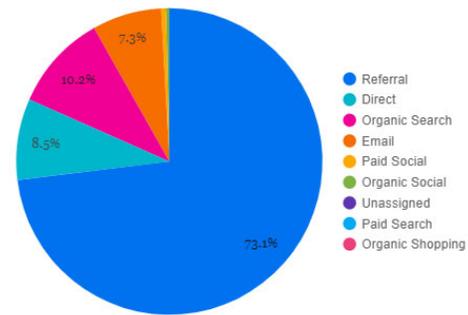
2022

Total Views	Engaged Sessions	Unique Users
2,949,473	975,408	1,222,242



2023 (through mid December)

Total Views	Engaged Sessions	Unique Users
3,454,408	1,200,009	1,400,848



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3

3

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Transportation Research Board

TRB We provide leadership in transportation improvements and innovation through trusted, timely, impartial, and evidence-based information exchange, research, and advice regarding all modes of transportation.

HOME ABOUT PROGRAMS EVENTS PUBLICATIONS RESOURCES SUPPORTERS

Be part of a fireside chat on mental wellness in the workforce at the TRB Annual Meeting

Register for the 2024 TRB Annual Meeting

Elevating Equity in Transportation Decision-Making

A Safe, Healthy Workforce Keeps Our Transportation Moving

Boost your career at the networking fair January 7

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UNIFORMS TRB LIFE PUBLICATIONS

Most Downloaded in TRB

Accelerating Development in the United States Technology...
Guide for Roundabouts
Adult-Drive Reachability Potential and Mitigation Test Methods...
Traffic Capacity and Quality of Service Manual, Third Edition
Development of Crash Prediction Models for...

PUBLICATIONS BY THE TRANSPORTATION RESEARCH BOARD LISTED BY MOST RECENT RELEASE

Viewing 1 - 10 of 3,103

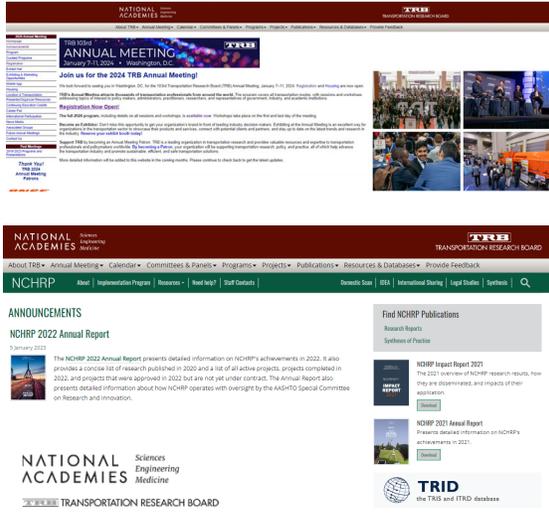
Elevating Equity in Transportation Decision-Making: Recommendations for Federal Competitive Grant Programs (2023)
National Governors of Science Engineers and Technological Transportation Research Board Policy Studies Committee on Data, Metrics, and Evidence (National for Assisting Daily Inspectors of Surface Transportation Funding Programs)
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Download Free PDF (0 downloads)
Add to Bookshelf

Statewide Approaches to the Development of Comprehensive Transit Information Systems (2023)
Read Online
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Add to Bookshelf

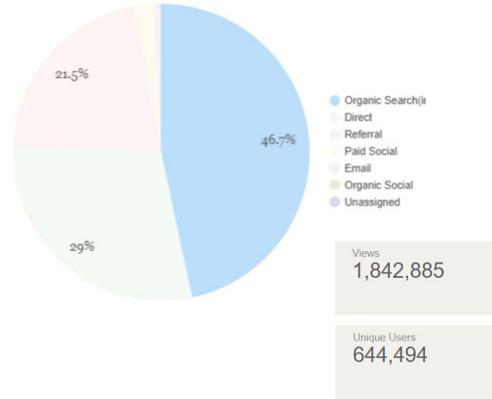
4

4

“OLD” TRB PAGES (mainly TRBAM and a few others like old CRP homepages and TRID)

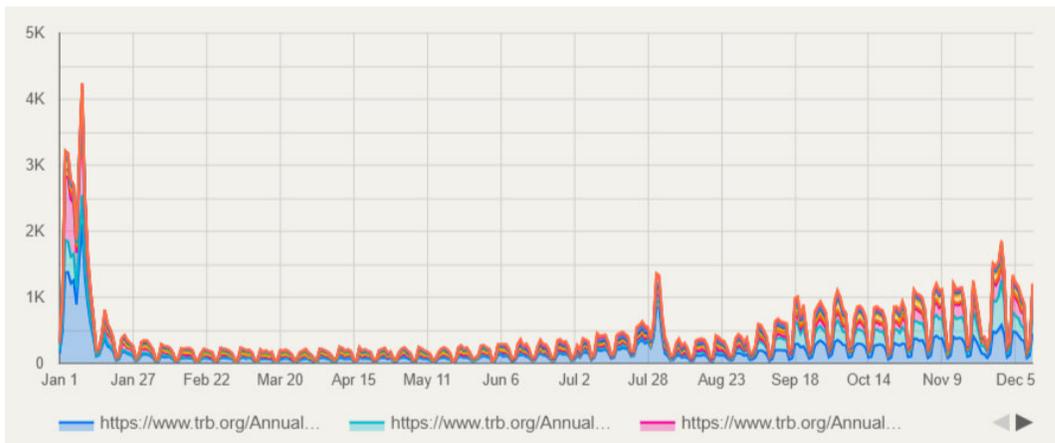


2023 (through mid December)



5

“Old TRB” web pages are primarily a spot where users take care of logistical issues.

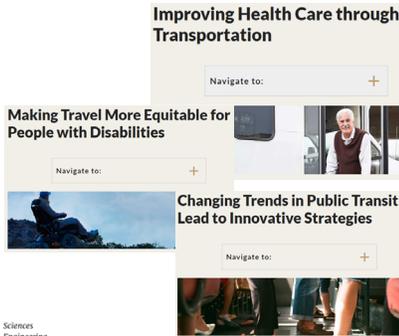


6

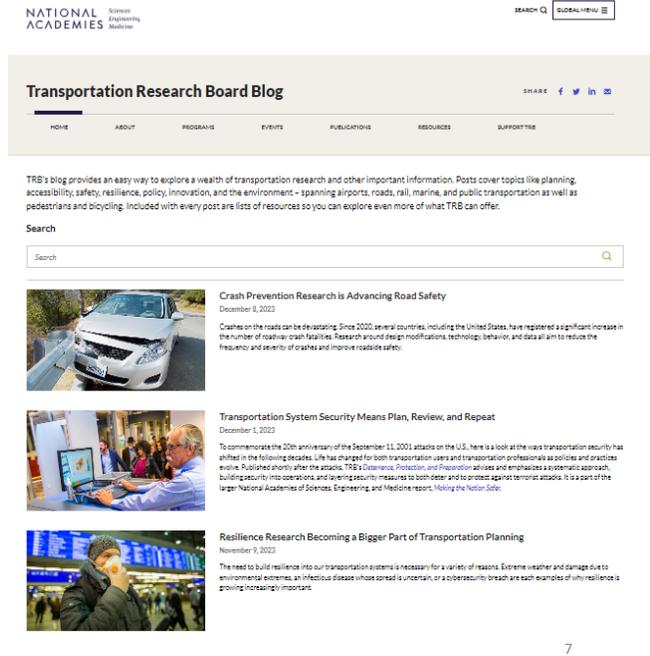
6

The TRB Blog continues to strengthen as a resource for web visitors

- Our top blog articles (see below) are each getting read ~1,500/year.
- Most users see the articles because of the strong findability of the Academies website (organic search) and through *TRB Weekly*.



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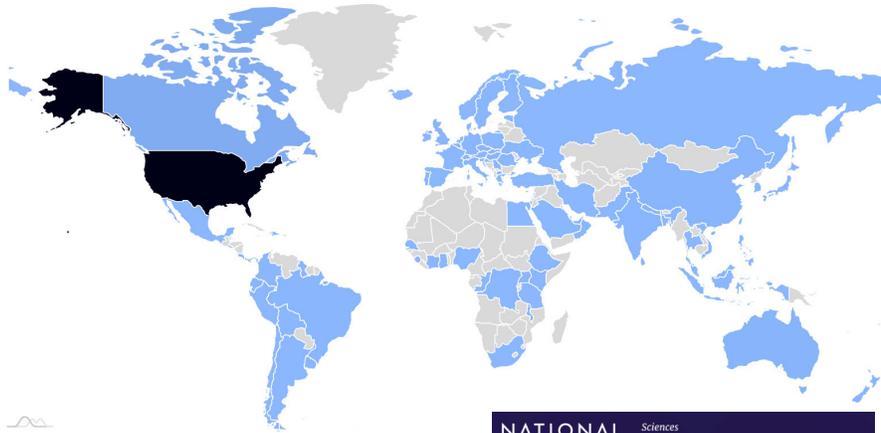
7

Newsletters

The new *TRB Weekly* had 10,000 subscribers in late 2021, 18,000+ as of mid-December 2022, and 25,000+ as of mid-December 2023.

More than 29,000 subscribers receive our *Upcoming TRB Webinars* newsletter.

TRBAM Express has proven to be a popular benefit to conference attendees for 4 years now.



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8

8

Media strategy: results in TRB appearing in an average of 100+ media articles per month.

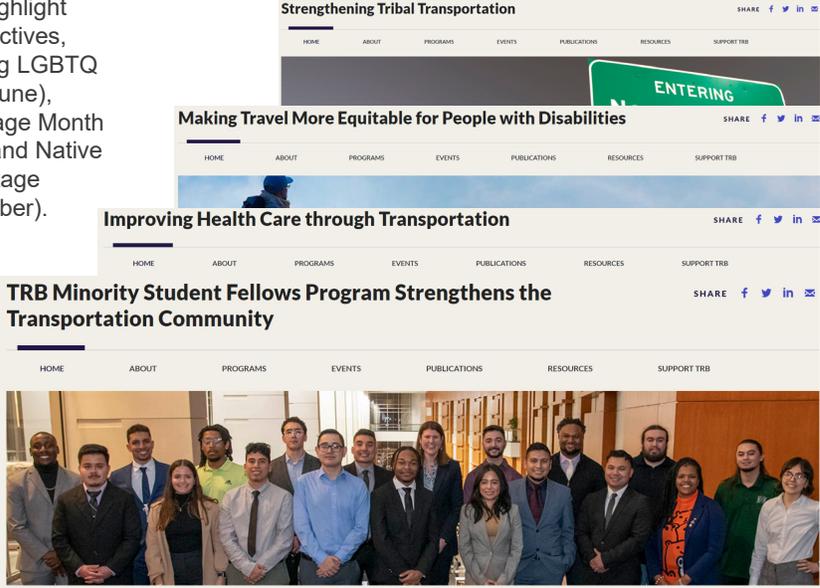
Social media: growth in followers from end of 2019 to end of 2023:

LinkedIn: 6,900 → 23,200

Twitter: 22,000 → 26,200

Facebook: 7,500 → 10,000

Equity focus →: we regularly highlight diverse perspectives, including during LGBTQ Pride Month (June), Hispanic Heritage Month (September), and Native American Heritage Month (November).



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9



10

CRP Update

TRB Executive Committee Meeting
January 11, 2024

Russell Houston
Associate Executive Director
Transportation Research Board

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Medicine*

TRB TRANSPORTATION RESEARCH BOARD



ANNUAL REPORT
NCHRP
National Cooperative Highway
Research Program



EXHIBIT 4. How NCHRP research products were applied in 2022.

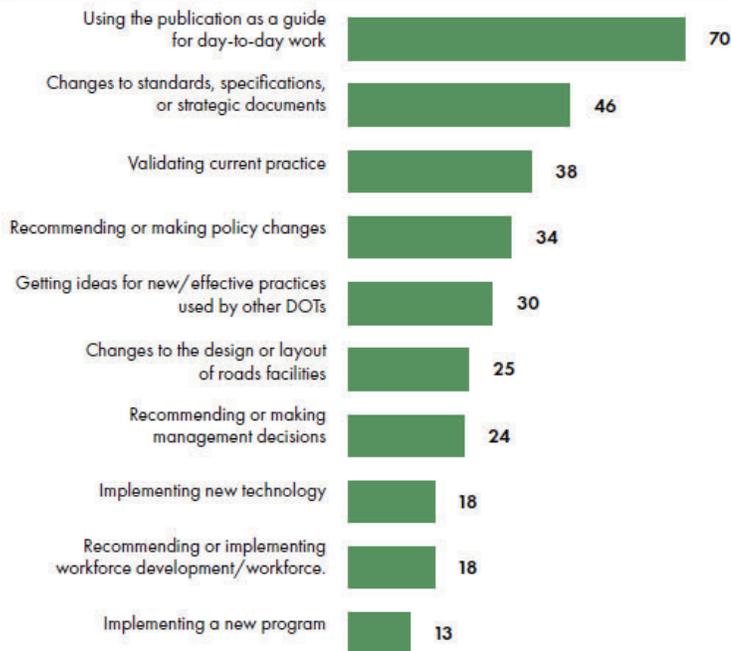
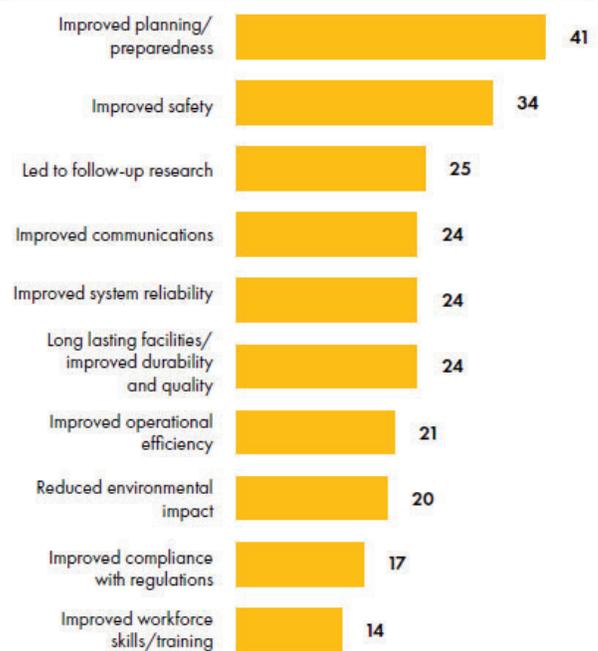
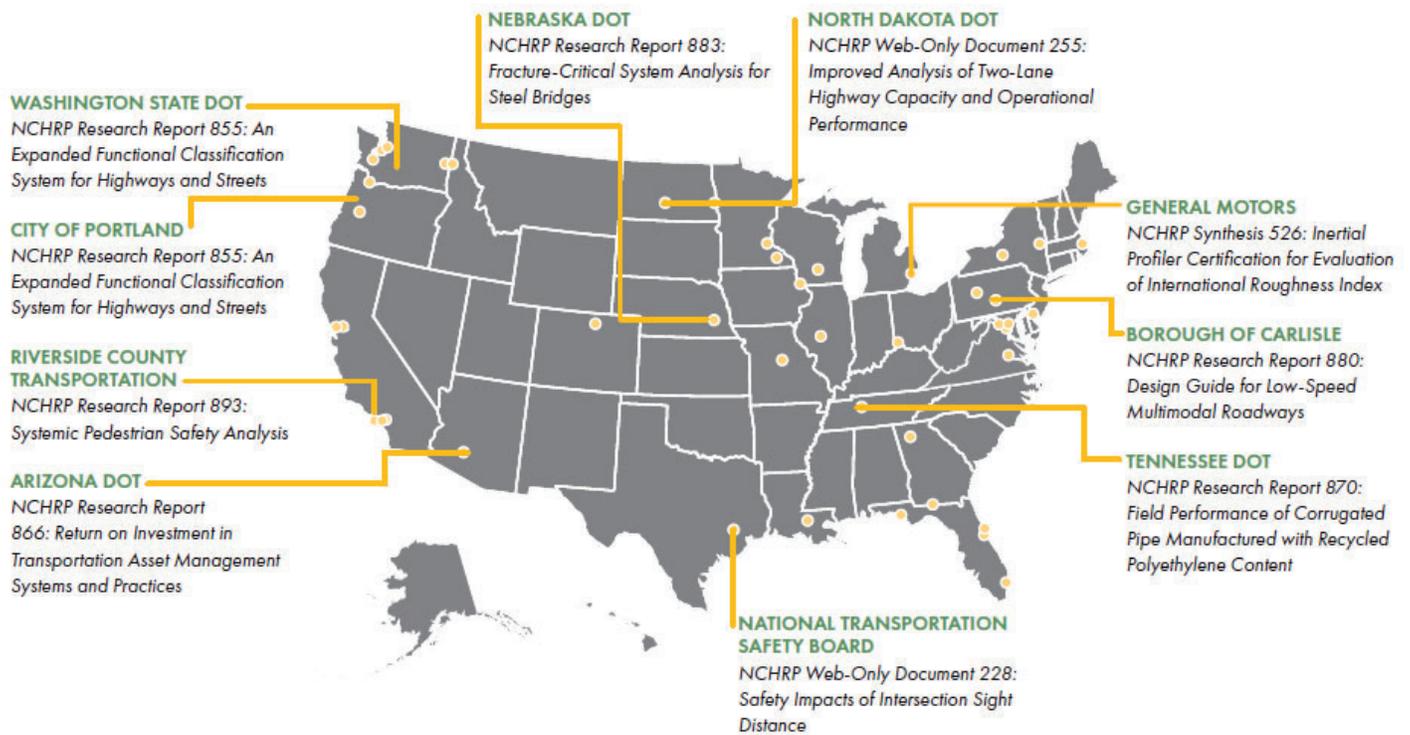


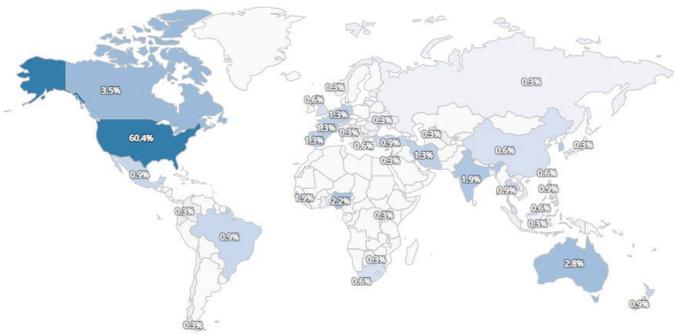
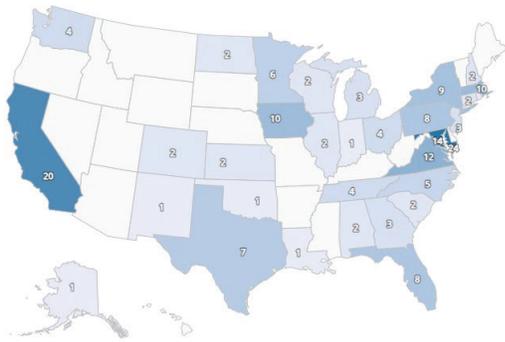
EXHIBIT 5. Benefits of applying NCHRP research products.



The bars and the numbers in them denote the number of responses for that application.

EXHIBIT 6. Where NCHRP research products were applied in 2022.





TCRP
Synthesis 167
A SYNTHESIS OF TRANSIT PRACTICE

Transit Cooperative
Research Program
Sponsored by the Federal
Transit Administration

**Partnerships for Equitable
Pandemic Response and Recovery**

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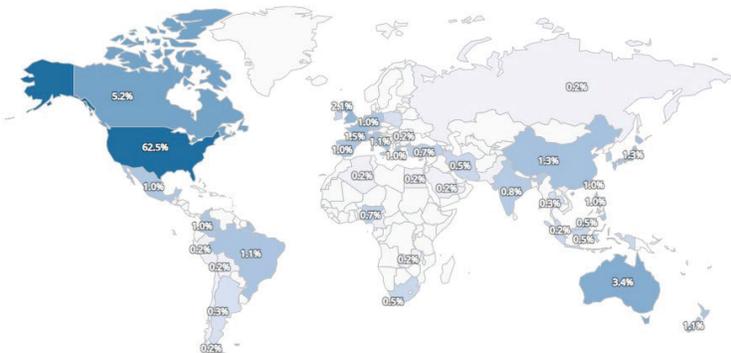
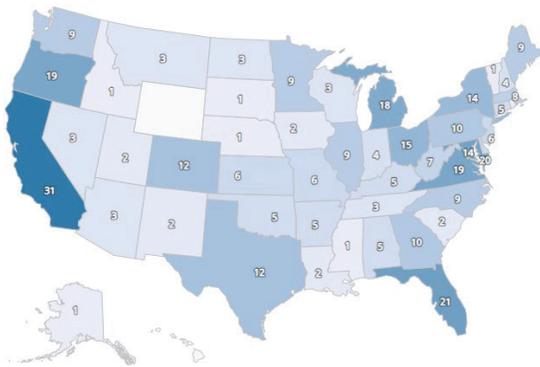
ACRP AIRPORT
COOPERATIVE
RESEARCH
PROGRAM

ANNUAL REPORT
OF PROGRESS
2023



2023 ANNUAL REPORT

BEHAVIORAL TRAFFIC SAFETY Cooperative Research Program

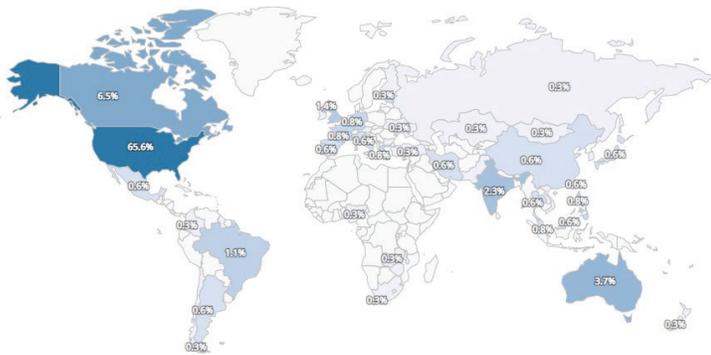
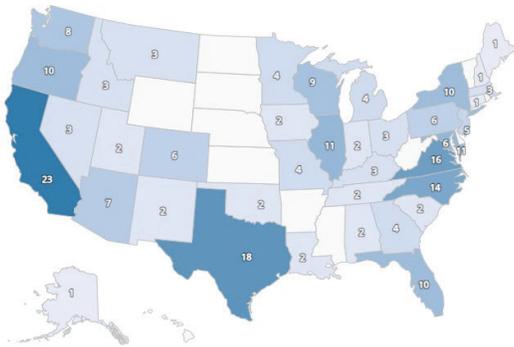


BTSCR
Research Report 4

Behavioral Traffic Safety Cooperative Research Program

Promoting Older Driver Safety
GUIDE FOR STATE PRACTICES

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BEHAVIORAL TRAFFIC SAFETY COOPERATIVE RESEARCH PROGRAM

BTSCRCP

Web-Only Document 6

Communicating Safe Behavior Practices to Vulnerable Road Users

Justin Owens
Tammy Trimble
Erem Memisizici
Virginia Tech Transportation Institute
Blacksburg, VA

Christopher LaRose
Naha Trivedi
Victoria Hallman
NORC at the University of Chicago
Bethesda, MD

Sanda Pecina
Storyteller Strategic Communication
Taos, NM

Conduct of Research Report for BTSCRCP Project BTS-13
Submitted August 2023

NATIONAL ACADEMIES Sciences Engineering Medicine
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Thank you and questions.

CONSENSUS AND ADVISORY STUDIES DIVISION
Director, Thomas Menzies

The Consensus and Advisory Studies Division provides consensus advice to the federal government and the transportation community more broadly based upon the deliberations of special, ad hoc committees appointed by the chair of the National Research Council.

INFORMATION AND DISCUSSION ITEMS

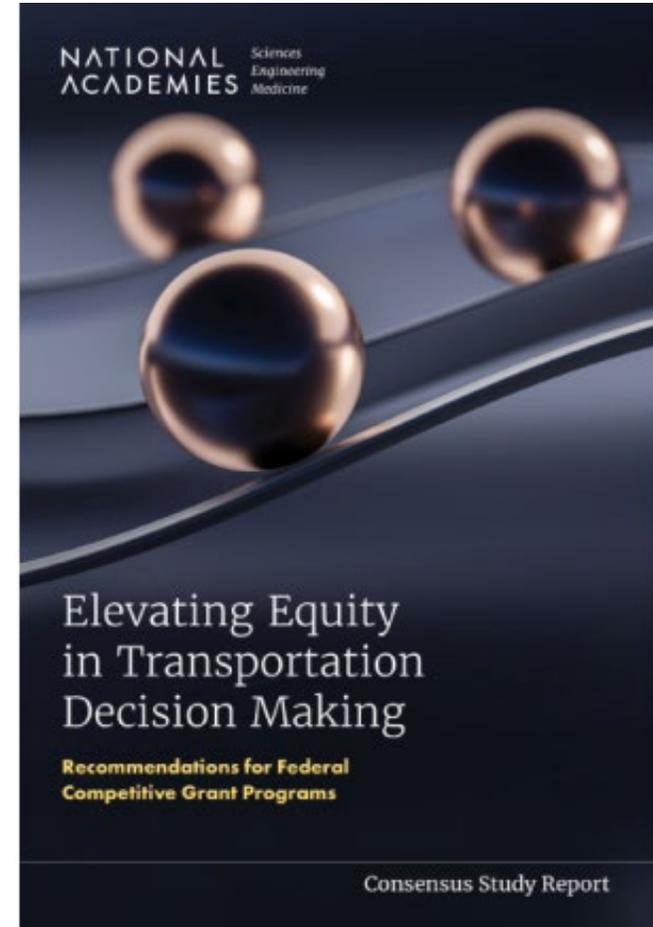
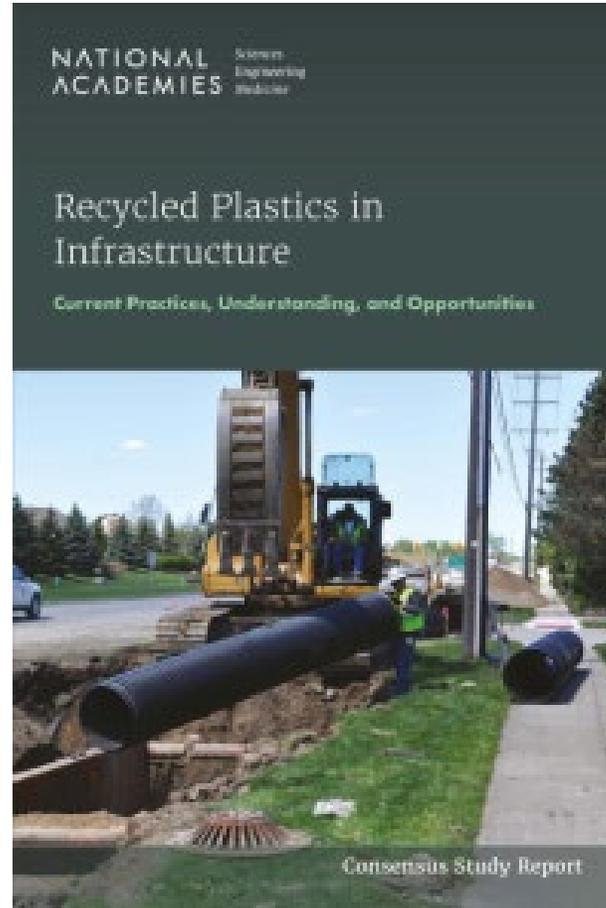
Reports Delivered, July-Dec 2023

Studies Underway

Pending Studies

Potential Studies in Active Legislation

Consensus Reports Delivered 2023



STATUS OF CONSENSUS STUDIES AND OTHER ACTIVITIES UNDERWAY

(Expenditures through November 2023)

<u>PROJECT</u>	<u>SPONSOR</u>	<u>FUNDED AMOUNT</u>	<u>SPENT</u>	<u>SCHEDULE BEGAN</u>	<u>COMPLETION</u>	<u>COMMENT</u>
1. Research and Technology Coordinating Committee	FHWA	\$400,000	10%	9/2023	9/2025	Next meeting May 2024
2. Transit Research Analysis Committee	FTA	\$145,000	100%	9/2003	9/2023	Waiting for new award
3. Emerging Aviation Safety Trends (Phase 2)	FAA	\$1,816,000	65%	8/2022	6/2026	Phase 2 underway. Next meeting: Jan. 2024
4. Automatic Shutoff Valves for Pipelines	PHMSA	\$720,000	90%	8/2021	3/2024	Delivery of report expected Jan. 2025
5. Safety Research to Practice	FHWA/NCHRP /IHS	\$700,000	60%	6/2022	6/2025	Report in development
6. Certificate of Compliance Inspection Program	USCG	\$625,000	60%	7/2022	5/2024	Next meeting Jan. 2024
7. Impacts of Truck and Bus Driver Compensation Methods	FMCSA	\$1,250,000	60%	7/2022	7/2024	Next meeting Jan. 2024
8. Impacts of Trains Longer than 7,500 feet	FRA	1,200,000	60%	9/2022	6/2024	Next meeting Jan 2024

STATUS OF CONSENSUS STUDIES AND OTHER ACTIVITIES UNDERWAY

(Expenditures through November 2023)

9. Best Practices for Chassis Provisioning	FMC	\$500,000	70%	9/2022	4/2024	Next meeting Jan 2024
10. Stormwater Management Best Practices	FHWA	\$600,000	10%	7/2023	7/2026	Committee appointed. Next meeting Jan 2024
11. EU-US Research Symposium	OST-R	\$180,000	20%	5/2023	11/2024	Event planning underway
12. Workshop on Emerging Transportation Workforce	NSF/TRB/NASEM	\$80,000	25%	6/2023	3/2024	Event planning underway
13. Forum on Accelerating Transformative Technologies	OST-R	\$315,000	0%	9/2023	1/2025	Initial planning underway
14. Alcohol at Sea	USCG	\$1,500,000	7%	9/2023	6/2025	Committee being formed
15. Transportation Equity Metrics Phase 2	OST-R	\$500,000	5%	11/2023	12/2024	Committee appointed

SUMMARY OF PENDING STUDIES

<u>Study</u>	<u>Sponsor</u>	<u>Scope</u>	<u>Status</u>
1. Impacts on Shipping and Fisheries of Renewable Energy Facilities on West Coast	USCG/ DOI	Identify and analyze where fisheries are likely to shift in the future and how shipping lanes and Coast Guard operations relevant to fishing activities will be affected by the of renewable energy facilities on the West Coast	National Defense Authorization and Appropriation Act for FY2023, Section 11319. Project will be led by DELS (Ocean Studies Board) with TRB collaboration.
2. Use of Innovative Materials in Water Resources Infrastructure	USACE	Examine USACE's R&D on innovative materials for use in navigation and flood control infrastructure	Originally called for in Section 1046, Water Resources Development Act of 2016. Project would be lead by TRB in collaboration with DELS Water Sciences and Technology Board. Award Expected Jan. 2024.
3. FAA Planning for Air Traffic Control Facility Staffing	FAA	Advise on means for developing science-based approaches for setting controller staffing targets	H.R. 3935 and S. 1939 direct FAA to commission a TRB study to compare the FAA and CRWG staffing models and methodologies. Proposal submitted Jan. 2024

Studies in Legislation (Tracking Recent Activity)

Air Traffic Control Work Force Staffing (Section 314 HR 3935 passed T&I committee)

Compare the FAA's air traffic controller staffing models and methodologies for determining staffing standards targets with those developed by the Collaborative Resource Workgroup

Economic Feasibility of Wheelchair Securement Systems in Airline Passenger Cabins (Section 712 HR 3935 passed T&I)

Assess the economic and financial feasibility of requiring air carriers to implement seating arrangements that accommodate passengers with wheelchairs in the aircraft cabin during flight

Aviation Noise Metrics (Section 485 HR 3935 passed T&I)

Assess the efficacy of day-night noise level metrics used for measuring noise emissions near airports and recommend any changes to the metrics that may be warranted

Radio spectrum used by aviation (Section 532 HR 3935 passed T&I)

Assess the conflicts arising from aviation uses of radio spectrum and uses by wireless telecommunications networks

Airborne Ultra Fine Particles (UFP) emissions at commercial airports (Section 482 HR 3935 passed T&I)

Safe aircraft cabin air quality, safe temperatures, and radiation exposure (Sec's 537, 539, 540 HR 3935 passed T&I)

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Studies in Legislation (cont.)

Business Practices of the Shanghai Shipping Exchange (HR 1836 Introduced in House 3/28/2023)

Examine any anticompetitive advantages benefitting the Shanghai Shipping Exchange and ability of the Ministry of Transport of the PRC to manipulate container freight markets.

Bering Strait Vessel Traffic Projects and Emergency Response Capacity (HR 2741 Introduced in House 4/20/2023)

Assess adequacy of emergency response capabilities and infrastructure at Port of Point Spencer, Alaska, to address navigation safety risks and geographic challenges necessary to conduct emergency maritime response operations in the Arctic environment.

Blocked Railroad-Highway Grade Crossings (S. 576, the Railway Safety Act of 2023, passed committee 4/20/2023)

Assess impacts of blocked grade crossings in 20 communities and 10 states.

Effectiveness of Pipeline Integrity Management Regulations (Sec. 19, H. 6494, Pipes Act, passed T&I committee 12/6/2023)

Cost of Pipeline Failures (Sec. 31, H. 6494, Pipes Act, passed T&I committee 12/6/2023)

Safety of Carbon Dioxide Pipeline Failures (Sec. 25, H. 6494, Pipes Act, passed T&I committee 12/6/2023)

2

TRANSPORTATION RESEARCH BOARD
2023 EXECUTIVE COMMITTEE

OFFICERS

- CHAIR:** **Ms. Diane Gutierrez-Scaccetti**, Commissioner, New Jersey Department of Transportation, P.O. Box 600, Trenton, NJ 08625-0600, (609) 530-3536, Email: diane.scaccetti@dot.nj.gov
- VICE CHAIR:** **Dr. Carol A. Lewis**, Professor, Transportation Studies, Texas Southern University, 3100 Cleburne Street, Houston, TX 77004, (713) 313-7924, Email: carol.lewis@tsu.edu
- EXECUTIVE DIRECTOR:** **Ms. Victoria Sheehan**, Transportation Research Board, National Research Council, 500 Fifth Street, N.W., Washington, D.C. 20001, (202)334-2936, fax (202) 334-2920, Email: vsheehan@nas.edu

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Email: ableson@arrival.com
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Email: dceva@prologis.com
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- Ms. Marie Therese Dominguez**, Commissioner, New York State Department of
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Dr. Steward T.A. Pickett, Distinguished Senior Scientist, Cary Institute of Ecosystem
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Changes in Executive Committee Membership

New Officers

Dr. Carol A. Lewis, Professor, Transportation Studies, Texas Southern University (Chair)

Ms. Leslie S. Richards, General Manager, Southeastern Pennsylvania Transportation Authority (Vice Chair)

New Ex-Officio Members

Ms. Sophie Shulman, Acting Administrator, National Highway Traffic Safety Administration

**TRB STAFF ATTENDING JANUARY 10-11, 2024
EXECUTIVE COMMITTEE MEETINGS****EXECUTIVE OFFICE**

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EXECUTIVE DIRECTOR
Victoria Sheehan

ASSOCIATE EXECUTIVE DIRECTOR
Russell Houston

- Annual Meeting Exhibit and Patron Programs
- Committee and Panel Approvals
- Communications
- Information Technology
- Transportation Research Information Services

STRATEGIC PROGRAM DEVELOPMENT DIRECTOR
Patrice Davenport

- Revenue Development
- Strategic Initiatives

SR. REPORT REVIEW OFFICER
Karen Febey

- Report Review
- Minority Student Fellows Program
- Inclusion & Diversity
- TRB Division Committee

HR DIRECTOR
Claudette Louard-Clarke

- Human Resources
- Staff Development Training

TECHNICAL ACTIVITIES
Ann Brach

- Annual Meeting Program
- Conferences and Workshops
- Marine Board
- Standing Technical Committees
- State Visits
- Transportation Research Record: Journal of the Transportation Research Board

Consensus and Advisory Studies Division
Thomas Menzies

- Consensus Studies
- Forums and Roundtables
- Research Program Advisory Committees

ADMINISTRATION AND FINANCE
Gary Walker

- Budgets and Finance
- Affiliates Accounts
- Publications Sales and Distribution
- Administrative Services

Note: organizationally is part of the Office of the Chief Financial Officer

COOPERATIVE RESEARCH PROGRAMS
Russell Houston (Acting)

- National Cooperative Highway Research Program
- Airport Cooperative Research Program
- Transit Cooperative Research Program
- Behavioral Traffic Safety Cooperative Research Program

DESCRIPTIONS OF TRB DIVISIONS

	Page
Executive Office	2
Technical Activities	5
Consensus and Advisory Studies	6
Cooperative Research Programs	6

EXECUTIVE OFFICE

Victoria F. Sheehan, Executive Director

TRB Executive Office

TRB's Executive Office is headed by Executive Director Victoria Sheehan. The TRB Executive Office provides policy and operational guidance for programs and activities; oversees committee and panel appointments and report review; provides support and direction for human resource issues and staffing needs; directs the Board's communications and information technology efforts; operates a bibliographic database of transportation research and provides library reference services; provides staff support to the Executive Committee and the TRB Division Committee; and maintains liaison with the executive offices of the National Academies of Sciences, Engineering, and Medicine, the Board's parent institution.

Oversight Activities

The Executive Office supports the work of the TRB Executive Committee, which provides policy direction to TRB programs and activities within the overall policies of the Academies. Oversight of committee and panel appointments and of report review is the responsibility of the TRB Division Committee, which ensures that TRB meets institutional standards and that its activities are appropriate for the Academies. As part of its oversight function, the committee monitors the Board's progress in expanding the representation of minorities and women on TRB committees and panels.

Chris Hendrickson, Chair, TRB Division Committee, represents TRB as an ex officio member on the NRC Governing Board. The Executive Office processes the Board's large volume of committee and panel appointments and maintains committee membership records. A hallmark of the Academies is its institutional process to ensure the independent, rigorous review of reports. In maintaining these high standards, TRB follows Academies' guidelines that carefully match the review criteria and procedures to the type of report.

Program Development and Strategic Initiatives

In addition, the Executive Office is responsible for ensuring stable, long-term revenue streams for TRB and for coordinating strategic initiatives across the board's various divisions. To carry out these responsibilities, the EO helps facilitate the increased use of technology to deliver TRB products and services; oversees the development and implementation of action plans for strategic, long term, cross cutting, and critical issues; encourages the exploration of new and innovative ways to facilitate information transfer within the rules of the Academies; helps promote the value of TRB products and services; oversees TRB's international participation strategy; administers the Minority Student Fellows Program; and is responsible for helping to ensure the continued development of the next generation of TRB volunteers.

Communications

The Executive Office is charged with developing, coordinating, and carrying out communications activities that span the entire organization. The following communications activities conducted by the NASEM's Office of the Chief Communications Officer are overseen by the Executive Office:

- The [Transportation Research E-Newsletter](#) is a free weekly electronic service designed to keep individuals up-to-date on TRB activities and to highlight selected transportation research related activities taking place at the federal and state levels, and within the academic and international transportation communities. More than 67,000 people from around the world receive the E-Newsletter.
- The [TRB Webinar Series](#) produces approximately 100 webinars per year on a variety of topics. TRB's webinars are produced with funding received from TRB Sponsors and TRB Sustaining Affiliates. Accordingly, employees of TRB Sponsors and TRB Sustaining Affiliates may attend the session without a fee. TRB is authorized to issue Professional Development Hours (PDH) for select, live webinars. TRB is also registered with the American Planning Association's professional institute, the American Institute of Certified Planners (AICP), to provide Certification Maintenance credits.
- TRB uses [Social Media](#) such as Twitter, Facebook, and LinkedIn to help our audience stay connected to transportation research. Social media also helps TRB to better understand how its reports and products are being used.

Information Technology and Research Services

TRB has a consolidated Information Technology (IT) and Transportation Research Information Services (TRIS) department. Both groups have key responsibilities that include the development, maintenance, and application of software in support of various TRB missions.

The IT group's primary focus are systems operation, maintenance, and management. The focus aligns with the TRIS staff's responsibilities in relation to the Transport Research International Documentation ([TRID](#)) database, the Research in Progress ([RiP](#)) database and website, the Research Needs Statements ([RNS](#)) database, and the TRB [Publications Index](#).

The responsibilities of the IT and Research Services groups include customer support for internal and external users of TRB's software systems; software enhancement and development; server and website monitoring and security; general IT support activities, such as training, documentation, and troubleshooting; and management and operation of transportation research services, bibliographic databases, and the [TRB Library](#).

TRID

In January 2011, TRB and [ITRD](#) released [TRID](#), the TRIS and ITRD Database. TRID is the world's largest and most comprehensive bibliographic resource on transportation research information. It is produced and maintained by the Transportation Research Board of the US National Academies with sponsorship by State Departments of Transportation, the various

administrations at the U.S. Department of Transportation, and other sponsors of TRB's core technical activities. ITRD is produced by ITRD member organizations under the sponsorship of Joint Transport Research Centre (collectively JTTC) of the International Transport Forum and Organisation for Economic Co-operation and Development (OECD) and ITRD. The records comprise published or ongoing research in English, German, French, or Spanish; more than 200,000 records link to full-text publications. The service offers simple and advanced searching and allows users to download and e-mail results, as well as to share via social media. TRID is available free of charge on TRB's website.

[Publications Index](#)

The TRB Publications Index includes more than 65,000 citations and abstracts for all TRB, Highway Research Board (HRB), Strategic Highway Research Program (SHRP), and Marine Board publications since 1923. The index offers simple and advanced searching and allows users to download and e-mail the results in a variety of formats. Records contain links to available full-text documents and to ordering information.

[Research Needs Statements Database](#)

The RNS database is a dynamic collection of highest-priority topics developed by TRB technical standing committees. The database serves as a tool for reviewing research needs, setting research priorities, and identifying gaps in current research.

[Research in Progress Database](#)

RiP is a searchable database of records of active or recently completed research projects from State Departments of Transportation, the modal administrations at the U.S. Department of Transportation, the Transportation Research Board, and university transportation centers. The current awareness service notifies users about new and updated project records in specified subject areas. [TRID](#) offers users an option for searching the [RiP](#) database or the [RiP](#) and [TRID](#) databases simultaneously.

[TRB Library](#)

The TRB Library provides research and reference services to TRB sponsors, committee members, and staff. The library subscribes to almost 250 serial titles and contains the complete collection of TRB, HRB, SHRP, and Marine Board publications.

The TRB Library participates in the Eastern Transportation Knowledge Network and in the National Transportation Knowledge Network.

TECHNICAL ACTIVITIES

Ann Brach, Director

About the Technical Activities Division

Who We Are

The Technical Activities Division provides a forum for transportation professionals to identify, facilitate, and share research and information related to transportation. The Division carries out activities on behalf of TRB sponsors and the transportation community through a network of over 200 [standing committees](#) comprised of more than 5,000 volunteers.

Our Mission

The Technical Activities Division supports TRB's mission of promoting innovation and progress in transportation through research and information exchange by identifying [needed research](#) and [research in progress](#), and disseminating [completed research results](#).

Our Staff

The [Technical Activities Division staff](#) consists of specialists within each transportation mode and topic, as well as specialists in publishing, meeting logistics, and business operations. They oversee the activities of the Division's network of volunteers, who carry out the following activities:

Our Activities

- **Standing committees and task forces** provide an opportunity for you to network with others in your field, and stay current on emerging issues while contributing to the continuing evolution of transportation research and practice. Learn [how to get involved in standing committees](#).
- **Technical Activities Council**, consisting of the overall Chair and the Chairs of each of the [Groups of committees](#), provides a forum for interchange between the Groups of committees. They assist in identifying emerging topics of interest to the transportation community and cross-cutting issues, and foster outreach efforts to other transportation organizations.
- **Conferences, Meetings, Webinars, and Workshops** are sponsored and co-sponsored by many of the Division's standing committees.
- **TRB Annual Meeting** is hosted every year and is the largest transportation conference in the world with over 700 sessions, workshops and 300 meetings that attracts over 14,000 professionals from around the globe. The Annual Meeting is held in January of every year in Washington, DC.

- **Supporting State DOT Representatives & Our Field Visit Program** serves as a major source of information collected and disseminated by TRB. Transportation professionals on the TRB staff meet on site with representatives of state departments of transportation, and with representatives of universities, transit, and other modal agencies and industry. Annual results of field visits are published each year.
- **Publications** are disseminated by the Technical Activities Division that showcase transportation research results through [Transportation Research Records](#), [Conference Proceedings](#), and [Transportation Research Circulars](#).

CONSENSUS AND ADVISORY STUDIES

Tom Menzies, Director

Consensus and Advisory Studies Division

The Consensus and Advisory Studies Division conducts consensus and advisory studies at the request of the U.S. Congress, executive branch agencies, states, and other sponsors.

CONSENSUS AND ADVISORY STUDIES

With the guidance of committees drawn from the nation's leading experts, [the Consensus and Advisory Studies unit](#) produces reports examining complex and controversial transportation issues. Studies cover all modes of transportation and a variety of safety, economic, environmental, and research policy issues. The U.S. Congress and the executive branch have adopted many recommendations from the reports, attesting to the substantive value of the studies. The TRB Executive Committee's Subcommittee on Planning and Policy Review provides oversight for the unit. All completed consensus reports, dating from 1982, are posted on the TRB website, <http://www.trb.org/Publications/PubsPolicyStudiesSpecialReports.aspx>.

Cooperative Research Programs Division

Russell Houston, Acting Director

The Cooperative Research Programs Division of the TRB, led by Director Christopher Hedges, administers a number of major research programs sponsored by other organizations.

National Cooperative Highway Research Program

Sponsored by the member departments of the American Association of State Highway and Transportation Officials (AASHTO) in cooperation with the Federal Highway Administration, the NCHRP was created in 1962 as a means to accelerate research on problems that affect highway planning, design, construction, operation, and maintenance nationwide. All of the state highway and transportation departments contribute to an annual cooperative pool to fund the program's activities. AASHTO committees and member departments and the Federal Highway Administration recommend research topics each year, and the AASHTO Special Committee on Research and Innovation (R&I) determines both the projects to be funded and the levels of funding for those projects. A close working relationship with AASHTO during execution of the

projects and the participation of experienced practitioners on project panels help ensure the application of completed NCHRP study results.

Transit Cooperative Research Program

The TCRP was initiated in 1992 by three cooperating organizations: the Federal Transit Administration, the program sponsor; the Transit Development Corporation, a nonprofit educational and research organization established by the American Public Transportation Association, which provides program governance through the TCRP Oversight and Project Selection (TOPS) Committee; and the National Academies of Sciences, Engineering, and Medicine, acting through TRB, which serves as program manager. Under TCRP, the transit industry develops innovative near-term solutions to operating problems and adapts appropriate new technologies and approaches to help meet the demands placed on the nation's public transit systems. The program's research covers topics relating to all aspects of public transportation, including planning, service configuration, equipment, facilities, operations, human resources, maintenance, policy, and administrative practices. Each year, the TOPS Committee selects a program of research from the large number of candidate research problem statements submitted by organizations and individuals in the transit community.

Airport Cooperative Research Program

The ACRP was authorized in federal aviation legislation and funding is made available through the annual federal appropriations process. ACRP, which began in 2006, is an industry driven applied research program that develops near-term, practical solutions to problems faced by airport operators. The program is sponsored by the Federal Aviation Administration (FAA). Research topics are selected by an independent governing board appointed by the U.S. Secretary of Transportation that includes individuals from airports, universities, FAA, and the aviation industry.

PURPOSES AND DUTIES OF THE TRB EXECUTIVE COMMITTEE

The TRB Executive Committee is the senior policy body of TRB, composed of approximately 25 members appointed by the Chairman of the National Research Council (NRC). These members are selected so as to provide balanced representation of transportation modes, academic disciplines, private and public sectors, levels of government, geographical regions, and other relevant factors. Members are appointed for a term of three years and may be reappointed for one term. In addition, approximately 20 *ex officio* members serve on the Executive Committee; these members have no vote but otherwise participate fully in Executive Committee activity. *Ex officio* members include the representatives of the Board's various sponsoring organizations.

The Executive Committee meets twice a year, once at TRB's Annual Meeting in Washington each January and once in June. The Chair of TRB's Executive Committee, appointed by the Chairman of the NRC, serves a one-year term, and presides over the Committee discussions, which are directed toward obtaining consensus on issues wherever possible. When formal rules of debate are required, Roberts' Rules of Order are employed.

The Executive Committee performs a number of functions in serving four different constituencies — the National Research Council (NRC), TRB, TRB's sponsors, and itself.

Executive Committee Responsibilities to the NRC

The TRB Executive Committee is officially an advisory group to the Chairman and the Governing Board of the NRC, who look to the Executive Committee to provide oversight of TRB's activities. Such oversight is intended to ensure that TRB's activities are appropriate for the NRC and constructive to the transportation system and the nation. Reports (both written and oral) regarding ongoing and proposed TRB projects are brought to the Executive Committee at each meeting and are approved, rejected, or accepted after modification. The Board is also expected to note new opportunities for TRB to provide its services or projects and, where appropriate, to find ways to bring such projects into being.

The TRB Division Committee is charged to ensure that NRC procedures and policies are faithfully employed with respect to study and project committee appointments and report review. The membership of the TRB Division Committee is drawn from the membership of the TRB Executive Committee. The Division Committee is chaired by the TRB Division Chair, who must be a member of the National Academy of Sciences or the National Academy of Engineering and a member of the TRB Executive Committee. The TRB Division Chair serves as an *ex officio* member of the NRC Governing Board.

The Executive Committee has a Subcommittee on Planning and Policy Review (SPPR), which reviews and approves proposed projects and studies, develops lists of Critical Issues in Transportation, plans and develops opportunities for new Executive Committee initiatives, and generally handles those substantive transportation issues that require action during the interval between the twice-yearly meetings of the Executive Committee. The SPPR generally meets in April and October in Washington, DC.

The Executive Committee has a Subcommittee on International Activities, which provides oversight of TRB's international activities, including review of Memoranda of Understanding and Letters of Intent with international organizations, and monitoring progress in implementation of the Executive Committee's Strategic Plan for International Activities.

The Executive Committee has also established a Special Committee on Diversity, Equity, and Inclusion, which provides oversight of implementation of the Executive Committee's Diversity, Equity, and Inclusion Strategic Plan.

TRB's Expectations of the Executive Committee

Most TRB projects and activities are conducted by expert volunteers who agree to serve on TRB technical standing committees, study committees, panels, task forces, and other similar groups. At any one time, about 500 such groups are in existence, composed of more than 7,000 professionals serving without compensation. The Executive Committee, either directly or through the TRB Division Committee or the CAAS, provides oversight on the formation, termination, and membership of committees and on the review of projects undertaken and reports produced. The Executive Committee can also influence committee and other TRB activities by developing and monitoring strategic plans, preparing the critical transportation issues, and undertaking special activities of its own. From time to time, Executive Committee members are also called on to perform special duties, such as assisting with report review or fundraising for special projects.

The Executive Committee also serves as a symbol of the prestige attached to serving on TRB committees. Executive Committee members are selected in part because they occupy some of the most prestigious and influential positions in the industry. Their participation on the Executive Committee demonstrates support for research and cross-modal dialogue at the highest levels, and thereby provides motivation for the uncompensated service of otherwise highly paid experts on whom TRB depends for its products and services.

Sponsors' Expectations

At the core of TRB, and perhaps its most visible feature, is a collection of Technical Activities, which include more than 175 TRB standing committees, the TRB Annual Meeting, publications programs, field visits to organizations conducting transportation research, and information services. About \$17 million—approximately one-fifth of TRB's total budget—is spent annually on these activities, supported by funding from individual states, federal agencies, private transportation organizations, local governments, individual affiliates, publication sales, and conference registration fees. These funds are pooled and spent in accordance with budgets approved by the Executive Committee. TRB's sponsors look to the Executive Committee to ensure that these funds are spent in ways appropriate to TRB's mission and in ways that encourage research and its dissemination.

Executive Committee's Own Expectations

Although the responsibilities summarized above indicate that the Executive Committee has more than enough duties for a group that only assembles twice a year, members often comment that their greatest personal satisfaction in serving comes from participating in discussions of substantive transportation issues and that they would like to devote more time at meetings to such discussion. The caliber and diversity of talent represented on the Executive Committee make serving on it a unique experience for most members, providing an unusual opportunity to share different perspectives in far-reaching

discussions of major transportation issues. Thus, an effort is made to conduct the Executive Committee's official business expeditiously at meetings, in order to leave time for these other important activities of the Board. Executive Committee policy sessions and other discussions of substantive issues have led to the initiation of important TRB projects and other activities.

Last updated January 3, 2024

**TRB POLICY ON EXECUTIVE COMMITTEE PARTICIPATION IN
COOPERATIVE RESEARCH PROGRAM (CRP) PROJECTS
Revised 1/8/2021**

In the administration of its contract research programs, TRB wishes to maximize both the substance and the appearance of fairness in the selection and management of its contractors, at the same time ensuring the quality and expanding the number of potential researchers as much as possible.

It is in TRB's interest to use the expertise of the best qualified individuals and organizations available to perform its research programs, where no actual or apparent conflicts of interest exist. However, conflicts may arise or appear to exist if members of TRB's Executive Committee or organizations with which they are affiliated submit proposals on projects.

To prevent such problems in the administration of the Cooperative Research Programs (CRP) administered by TRB, members of the Executive Committee are not permitted to serve as principal investigators on any CRP projects. Additionally, the following rules will apply to all members of the Executive Committee:

1. No involvement is permitted in the selection process for CRP contractors, where the individual Executive Committee member or an affiliated organization is being considered.
2. No involvement is permitted in TRB's administration of a contract in which the individual or an affiliated organization is involved.
3. No involvement is permitted in setting or modifying administrative policies that would directly or materially affect either the administration of existing contracts with the individual or affiliate organization, or the individual's or affiliate organization's ability to submit proposals.

The Chair of the TRB Executive Committee, serving a one-year term; the Chair of the TRB Division Committee, serving a three-year term; and the Vice Chair of the Division Committee, serving a three-year term, have close ties to the Executive Director and to the activities of TRB. Neither of the Chairs nor the Vice Chair has any role in the selection of contractors for CRP projects. Nevertheless, because of these special relationships, the following additional rules also will apply to their activities on CRP projects during their terms as Executive Committee Chair, Division Committee Chair, and Division Committee Vice Chair:

4. Individuals serving in these positions may not personally propose on any CRP project during their years of service as Executive Committee Chair, Division Committee Chair, and Division Committee Vice Chair. This limitation on their right to propose on a CRP project as an individual does not extend to a governmental or academic entity with which they are affiliated provided that the individuals in question do not hold a significant financial interest (other than their salaries) in the governmental entity or academic institution of higher learning. Affiliated organizations in which an Executive Committee Chair, Division Committee Chair, or Division Committee Vice Chair holds a significant financial interest, other than a salary derived from a position in a governmental entity or an academic institution of higher learning, may also propose, but only in accordance with case-specific guidelines established by the Division Committee in advance of that individual's appointment as Executive Committee Chair, Division Committee Chair, or Division Committee Vice Chair to ensure that there is neither actual nor perceived conflict of interest.
5. They may not be personally consulted or participate in any way in the preparation of a proposal, or otherwise provide information that would be advantageous to a proposal team.
6. They may not work on a project as a member of the research team or as a consultant to the team.

Where a newly appointed Chair of the Executive Committee, Chair of the Division Committee, Vice Chair of the Division Committee, or other member of the Executive Committee has existing activities or commitments covered in the foregoing list of rules on a CRP project at the time of appointment, those activities will be reviewed and recommendations made on a case-by-case basis by the members of the Division Committee (exclusive of a newly appointed chair, vice chair, or member if his/her activities are being considered).

January 3, 2024

TRB STANDING OVERSIGHT COMMITTEES

TRB Division Committee

Composition

The Division Committee's membership, drawn from the TRB Executive Committee, consists of a chair who is an *ex officio* member of the Governing Board, a member of one of the Academies, the chair of the TRB Executive Committee, and a representative from a state department of transportation. The chair of the TRB Executive Committee serves a one-year term as a full member, while the other full members serve three-year terms. The Division Committee also includes the TRB Executive Committee's vice chair and immediate past chair as *ex officio* non-voting members who serve one-year terms.

Function

To ensure that TRB meets NRC standards for objectivity and that its activities are appropriate for the NRC; to monitor TRB with respect to specially funded project committee and panel appointments, report review, and the summary of Division programs presented to the NRC Governing Board. The Division Committee Chair serves as the TRB Division Chair for NRC Oversight and as an *ex officio* member of the NRC Governing Board.

Appointment Procedure

Appointed by NRC Chair upon recommendation of Executive Director in consultation with NRC and Chair of TRB Executive Committee, subject to approval of the NRC Governing Board. Appointment letters signed by NRC Chair. Selection of members complies with TRB *Terms of Reference*.

Subcommittee on Planning and Policy Review (SPPR)

Composition

Subcommittee of the TRB Executive Committee, composed of 11 members. The Chair and 10 other members serve 3-year terms.

Function

To advise the Executive Committee and staff on matters relating to selection, scope, and execution of policy-oriented studies within TRB; establish goals and directions for those parts of TRB engaged in policy studies; plan and develop opportunities for new Executive Committee initiatives; identify critical transportation issues warranting TRB consideration; act for Executive Committee on all matters requiring its attention between regular Executive Committee meetings; advise the Chairs of the Executive Committee and the Division Committee of actions taken; and report to the Executive Committee on all of its activities at each Executive Committee meeting. The SPPR is also charged to identify major transportation problems, with particular attention to multimodal and intermodal issues; propose action plans for TRB that address these problems; and suggest sources for the funds needed to pursue these plans. The SPPR also oversees TRB's strategic planning process,

including development of TRB Strategic Plans, and develops policy session agendas and other program initiatives of the TRB Executive Committee.

Appointment Procedure

Appointed by Chair of the TRB Executive Committee following guidelines approved by the Executive Committee. Bias/conflict-of-interest statements are not required.

Technical Activities Council (TAC)

Composition

The Technical Activities Council consists of the overall Chair, the Chairs of each of the eleven Groups, and one or more at-large members. All serve 3-year terms. Members who are in the second year of their 3-year term serve as the Council's representatives to the TRB Executive Committee, along with the Technical Activities Council Chair.

Function

Program Function: Provides a forum for interchange and interaction among the Groups, between the Groups and the TRB Executive Committee, and between the Groups and TRB staff. Assists in identifying emerging topics of interest to the transportation community and cross-cutting issues. Facilitates interaction among Groups, Sections, and committees to address cross-cutting issues and opportunities. Fosters outreach efforts to other transportation organizations and groups.

Administrative Function: Plays a significant role in refining and implementing processes and techniques for improving the quality of meetings and publications emanating from Technical Activities Division volunteer activities. Serves as a focal point for the continuing review in each of the Group Executive Boards of the need for establishing new committees and for discharging those that are no longer necessary.

Appointment Procedure

Appointed by the TRB Executive Director with approval by Division Committee Chair. Bias/conflict of interest statements are required.

MARINE BOARD

Composition

15-20 members. The Chair and the other members serve 3-year terms.

Function

To identify research and policy study needs and provide a forum for the exchange of information relating to new technologies, laws and regulations, economics, the environment, and other issues affecting the marine transportation system, port operations, coastal engineering, and marine governance. Also, to oversee standing technical committees in related areas.

Appointment Procedure

Appointed by NRC Chair following recommendation of TRB Executive Director in consultation with NRC and members of Marine Board. Appointment letters are signed by the TRB Executive Director. Bias/conflict of interest statements are required.

COOPERATIVE RESEARCH PROGRAM OVERSIGHT COMMITTEES

Composition

Varies according to program and origin. Some oversight bodies (NCHRP, TCRP, and ACRP) are entities that are appointed and exist outside the NRC/TRB. Others may be internally appointed.

Function

To select research problems and program the funding for them, on behalf of the constituent user groups associated with the program.

Appointment Procedure

Varies according to program and origin. Internally appointed committees are appointed by TRB Executive Director following approval by SNO Chair and, as appropriate, by NRC Chair. Appointment letters are signed by the TRB Executive Director. Bias/conflict of interest statements are required.

TRB PROJECT APPROVAL PROCESSES

Policy Studies and Program Reviews

Description

Projects conducted by NRC-appointed committees that provide consensus findings, recommendations, advice

Approval Steps

Approval by TRB Executive Committee or Subcommittee on Planning and Policy Review; approval by Executive Committee of NRC Governing Board

Product

Full-length study reports, interim reports, letter reports

Conferences and Workshops

I. Organized by TRB Standing Technical Committees

Description

Outgrowth of standing committee activity; no significant outside funding; often self-supporting; no consensus findings, recommendations, or advice

Approval Steps

Approval by TRB Executive Committee or Subcommittee on Planning and Policy Review

Product

Transportation Research Circular

II. Organized by Other Organizations and Cosponsored by TRB

Description

Conference formats vary, but TRB must have a role in conference planning

Approval Steps

Approval by TRB Executive Committee or Subcommittee on Planning and Policy Review

Product

No TRB publication

III. Organized by Specially Appointed (“Ad Hoc”) TRB/NRC Committee

Description

Supported by outside funding; may or may not lead to consensus findings, recommendations, or advice (most are not authorized to do so)

Approval Steps

Approval by TRB Executive Committee or Subcommittee on Planning and Policy Review; approval by Executive Committee of NRC Governing Board

Product

Conference or workshop report, summary, or proceedings (in the TRB Conference Proceedings series)

Cooperative Research Program ProjectsDescription

Supported by NCHRP, TCRP, ACRP, NCFRP, or HMCPRP funding; projects selected by NRC/TRB-appointed oversight committees or by non-NRC/TRB entities representing the user communities; research conducted by contractors selected by individual project panels, which oversee the work and review final report

Approval Steps

Approval by the TRB Division Committee Chair of research problems selected by the non-NRC/TRB entities (SCOR, TOPS, and AOC Committees)

Product

CRP Reports, Research Results Digests

Synthesis ProjectsDescription

Supported by NCHRP, TCRP, ACRP, or FMCSA funding; projects selected by oversight panels representing the user communities; research conducted by contractors under the guidance of individual topic panels. Umbrella panels review final documents.

Approval Steps

Approval by the TRB Executive Director of research topics selected by oversight panels.

Product

Synthesis report
